

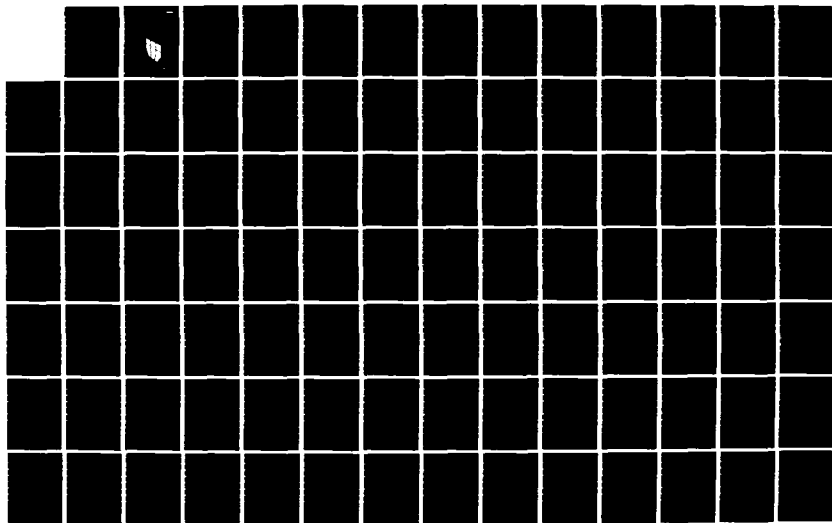
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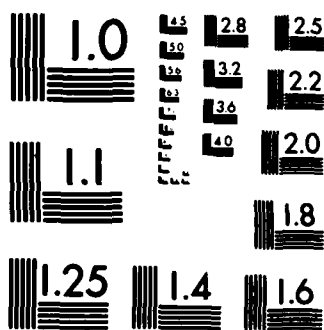
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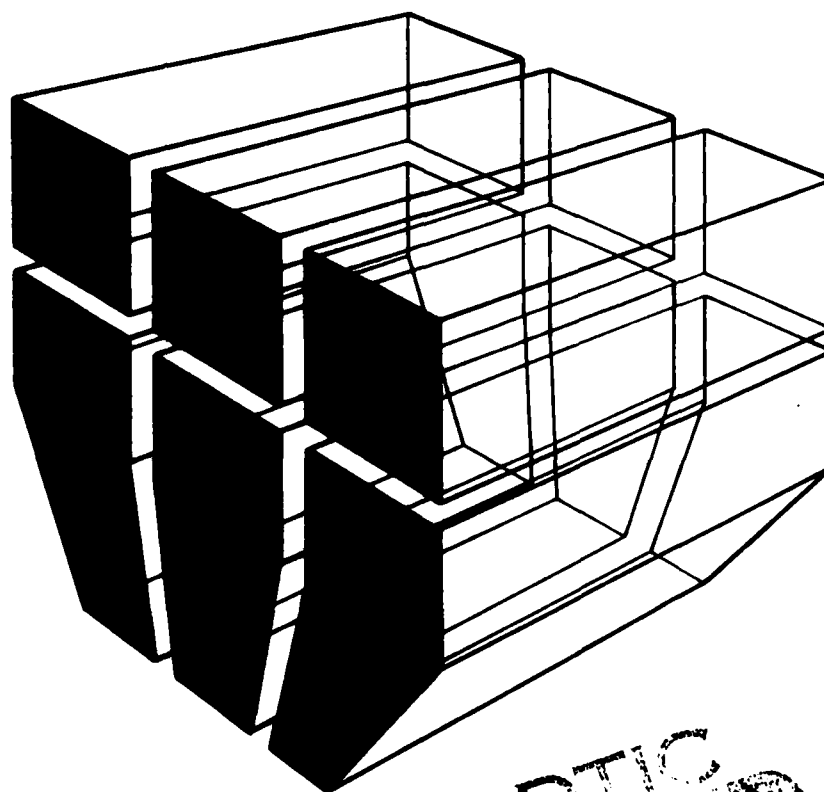
**US Army Corps
of Engineers**

Construction Engineering
Research Laboratory

TECHNICAL REPORT P-158
June 1984

**AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM (ACMS),
VOLUME II: PROGRAM DOCUMENTATION**

by
Charles E. Herring, Jr.



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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER CERL-TR-P-158	2. GOVT ACCESSION NO. AD-A143031	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM (ACMS), VOLUME II: PROGRAM DOCUMENTATION		5. TYPE OF REPORT & PERIOD COVERED Final
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Charles E. Herring, Jr.		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. ARMY CONSTRUCTION ENGINEERING RESEARCH LABORATORY P.O. BOX 4005, CHAMPAIGN, IL 61820		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 4A762731AT41-E-038
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE June 1984
		13. NUMBER OF PAGES 250
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Copies are available from the National Technical Information Service Springfield, VA 22161		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Automated Construction Management System ACMS management information systems microcomputers construction		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Automated Construction Management System (ACMS) has been developed to manage Army Engineer unit construction projects. It is a full-feature project management system implemented on a multiuser microcomputer system. The approach in developing the system was to exploit commercial software programs and hardware to minimize programming requirements and thus allow researchers to spend more time finding uses for the system.		

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In FY83 the ACMS was fielded as a pilot system at the 18th Engineer Brigade in the Federal Republic of Germany. The pilot system was used to manage more than 100 construction tasks during 1983.

Volume I is a complete user's guide describing ACMS version 84.0 and the hardware and software as fielded at the 18th Engineer Brigade; it also gives detailed examples for using the modules and describes input requirements and output reports. Volume II contains the data base documentation for ACMS version 84.0, including system requirements, installation instructions, and program listings.

ACMS version 84.0 is available from the Command and Control Microcomputer User's Group (C²MUG). Contact: Chief, CECOM SDSD, ATTN: DRSEL-FL-SDSD (C²MUG), Fort Leavenworth, KS 66027. Telephone (913) 684-7550 (COMM), or 552-7550 (AUTOVON).

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FOREWORD

This investigation was conducted for the Assistant Chief of Engineers, Office of the Chief of Engineers (OCE), under Project 4A762731AT41, "Design, Construction, and Operation and Maintenance Technology for Military Facilities"; Task E, "Military Engineering"; Work Unit 038, "Engineer Unit Microcomputer Applications." The applicable STO is 81-5.1:19. The OCE Technical Monitor was Dr. Clemens Meyer, DAEN-ZCM.

This work was performed by the Facilities Systems (FS) Division of the U.S. Army Construction Engineering Research Laboratory (USA-CERL). Jennifer Young was an associate investigator for the project, and Jane-Ping Chiu made significant contributions as a programmer. E. A. Lotz is Chief of USA-CERL-FS. U.S. Army 18th Engineer Brigade personnel directly involved in fielding the ACMS were COL Charles Williams, Commander; LTC Melvin Lynch, S-3; LTC Larry Izzo, S-3; MAJ Russell Baldwin, S-3, Operations; MAJ David Phillips, S-3, Plans; 1LT Lordes Goodnight, S-3, Operations; Ms. Julie Osborn, S-3, Operations; and SP4 Vicky McDaniels, S-3, Operations.

COL Paul J. Theuer is Commander and Director of USA-CERL, and Dr. L. R. Shaffer is Technical Director.

Accession For

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AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM (ACMS),
VOLUME II: PROGRAM DOCUMENTATION

1 INTRODUCTION

Background

During FY83 the U.S. Army 18th Engineer Brigade at Grafenwoehr, Federal Republic of Germany (FRG), was engaged in a massive construction effort to upgrade training ranges so that modern weapon systems, such as the M-1 tank, could be used in exercises. With an estimated cost of \$40 to 60 million and involvement of 4000 soldiers plus a civilian support group, the project needed a responsive, accurate construction management system.

The U.S. Army Construction Engineering Research Laboratory (USA-CERL) was asked to develop a microcomputer-based Automated Construction Management System (ACMS) for the 18th Engineer Brigade project. The pilot system was fielded at the 18th Engineer Brigade Headquarters in January 1983. The system's initial capability consisted of a Network Analysis Module and a General Applications Module with an electronic spreadsheet and word processing. In April 1983, USA-CERL added a Data Base Management Module, a Weekly Progress Report Module, and a Reports Generation Module.

Version 84.0 is the Data Base Management Module of the ACMS and was designed to meet the 18th Engineer Brigade's needs. It provides for computerized management of equipment and personnel by individual projects.

Purpose

The purpose of this report is to provide program documentation and a programmer's reference for ACMS Version 84.0.

Approach

To develop the ACMS, off-the-shelf hardware and software were exploited to minimize programming requirements and to enable researchers to spend more time designing system applications, described in Volume I. For this reason, the dBASE-II™ data base management program by Ashton-Tate, Inc., was used to implement the Data Base Management Module.

The approach in documenting the ACMS was to explain the system requirements, installation of data base programs, and data base structure, and to give complete program listings.

Mode of Technology Transfer

The ACMS has been given to the 2nd Engineer Group in Korea and the 20th Engineer Brigade at Fort Bragg, NC. The applications programs, written in

dBASE-II, are available to all Army Engineer units from the U.S. Army Command and Control Microcomputer User's Group (C²MUG).*

The products of this research will ultimately be interfaced with related Army initiatives and will be interfaced with other Army initiatives, such as the Military Computer Family.¹ The goal is to have a well-defined set of engineer-specific applications that can be implemented on military computer hardware and software by 1990.

*Contact: Chief, CECOM SDSD, ATTN: DRSEL-FL-SOSD (C²MUG), Fort Leavenworth, KS 66027; telephone (913) 684-7550 (COMM), or 552-7550 (AUTOVON).

¹H. J. Cashman, "Army Battlefield Automation--The Military Computer Family Concept," Signal (July 1983), pp 37-42.

2 ACMS DATA BASE DOCUMENTATION

System Requirements

ACMS version 84.0 is written in dBASE-II version 2.4 and consists of 7500 lines of code in 33 command files that occupy 290 Kbytes of storage. The two-user version has 51 data base and index files occupying 102 Kbytes, and the single-user version has 33 data base files occupying 66 Kbytes. The system will operate on any computer that can run dBASE-II. The number of tasks will determine the size of the data base files which, in turn, determines the secondary storage needed. A minimum system would have two floppy-disk drives, each with approximately 500 Kbytes capacity. The multiuser version of ACMS was written to operate on a multiuser Televideo TS 806 with a hard-disk drive of 10 Mbytes.

dBASE-II

The dBASE-II™ assembly language relational data base management system by Ashton-Tate Inc., was used to develop the ACMS. The program is available from several commercial software distributors.

dBASE-II provides a block-structured programming language through which complex input, data processing, and output are possible. The language has control features (IF-ELSE, CASE, DO WHILE) similar to pascal and string manipulation functions (CHR, LEN, VAL, etc.) similar to BASIC that make it very flexible. Data structure and file handling are built-in features of the language that allow for rapid program development. Data structure is limited to data base files that consist of user-defined records containing a maximum of 32 fields. Programs are a sequence of commands written with an editor and stored in an ASCII file. dBASE-II executes these command files interpretively.

Files under the CP/M and MS-DOS operating systems are limited to a maximum of eight characters, then a dot (.), and a three-character extension: FILENAME.EXT. dBASE-II file naming conventions pertinent to ACMS version 84.0 are as follows: data base files have an extension of .DBF; index files of .NDX; command files of .CMD for CP/M-80 or .PRG for CP/M-86 and MS-DOS; and memory variable files of .MEM.

Multiuser Systems

Although the multiuser version of ACMS was developed on the TS 806, it is completely transportable to other multiuser operating systems. The multiuser data base problems of shared file access and file and record lock are handled inside dBASE-II; no operating system-dependent calls are used. ACMS version 84.0 supports only one multiuser data base operation--a two-user Weekly Progress Report (WPR) input. The difficulty in implementing multiuser shared file data base systems independent of the operating system is that, once a user opens a file, most operating systems will make that file read-only for the other users. The file will remain read-only for them until the program returns control to the operating system, at which time the file will be

released for write access. If the ACMS.CMD menu system is being used, the operating system will not gain control until this program is terminated. Therefore, data base operations contained in the menu system, except for Weekly Progress Report input, are limited to access by a single user during a session.

The two-user Weekly Progress Report input allows two users, identified as users A and B, to enter reports at the same time. This is implemented using transaction files. The weekly input transaction data base files are of the form W*A.DBF for user A and W*B.DBF for user B (* is the operating system "wildcard" operator). The transaction files are temporary files merged into a single transaction file in the program PS.CMD; this file is then used to update the master. For example, WACTA.DBF and WACTB.DBF are appended into the transaction file WACT.DBF which is used to update the master, ACT.DBF. The main processing program, PS.CMD, clears the weekly transaction files for the next week's data. To understand how these programs work, the command files WPR.CMD, WPR1.CMD, WPR2.CMD, and PS.CMD must be studied (Appendix A). Appendix B gives the structure of the W*.DBF data bases. ACMS can be extended to any number of users by modifying the programs mentioned above and by creating additional transaction files.

The multiuser ACMS system requires that the hard disk have at least two logical drives. As implemented in version 84.0, these drives are A and B, with A as the main working drive. When the user indicates that backup copy of a data base is desired, this backup will be made to the B drive. The exception is BACKUP.CMD, which copies the weekly WPR data onto the floppy drive. On the TS 806, the floppy is C drive.

ACMS version 84.0 is distributed on two diskettes--one containing the command files and the other containing the data base and index files. A directory display of the data base diskette should look like that in Figure 1.

Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes
ACT	DBF	2K	EQCOST	NDX	2K	SCHEDULE	NDX	2K	WMANDAYS	DBF	2K
ACT	NDX	2K	GROUPS	DBF	2K	WACT	DBF	2K	WMANDAYS	NDX	2K
BILL	DBF	2K	GROUPS	NDX	2K	WACT	NDX	2K	WMDAYS	DBF	2K
BILL	NDX	2K	LOCKSA	DBF	2K	WACTA	DBF	2K	WMDAYS	NDX	2K
BN	DBF	2K	LOCKSB	DBF	2K	WACTA	NDX	2K	WMDAYS	DBF	2K
BN	NDX	2K	MANDAYS	DBF	2K	WACTB	DBF	2K	WMDAYS	NDX	2K
CLUSTERS	DBF	2K	MANDAYS	NDX	2K	WACTB	NDX	2K	WPR	DBF	2K
CLUSTERS	NDX	2K	MISC	DBF	2K	WEQ	DBF	2K	WPR	NDX	2K
DAYS	DBF	2K	PDF	DBF	2K	WEQ	NDX	2K	WPRA	DBF	2K
DAYS	NDX	2K	PDF	NDX	2K	WEQA	DBF	2K	WPRA	NDX	2K
EQ	DBF	2K	PS	DBF	2K	WEQA	NDX	2K	WPRB	DBF	2K
EQ	NDX	2K	PS	NDX	2K	WEQB	DBF	2K	WPRB	NDX	2K
EQCOST	DBF	2K	SCHEDULE	DBF	2K	WEQB	NDX	2K			

51 File(s), occupying 102K of 340K total capacity
13 directory entries and 238K bytes remain on A:

Figure 1. Directory display of data base diskette.

Single-User Systems

The single-user version of ACMS eliminates the need for the A and B user WPR transaction files W*A.DBF and W*B.DBF. Only the W*.DBF transaction files are used. The data base distribution diskette directory should appear as shown in Figure 2.

The major consideration in implementing ACMS on a single-user system is that of file referencing by drive. As the system is supplied on the distribution diskette, both command file and data-base file references will be to the logged drive, except for the backup options, which copy to B drive. If ACMS is to be run on a two-floppy system, the user must edit the command files and specify the drives on which the files will be. If ACMS is to be implemented on a system with a hard disk, all command and data-base files can be placed on one hard-disk drive. Backup will be to the B drive unless the command files are edited.

Installation

The first step to take with the two distribution diskettes is to make backup copies. These are the "master working" copies and are to be used only for making other copies. The original masters should be stored in a safe place. A directory display of the command file disk should appear as shown in Figure 3.

If the file referencing must be changed, e.g., command files are to be located on A drive and data base files on B drive, the command files must be edited. To do this, the program listings in Appendix A should be studied. After the files from the distribution diskettes have been copied to the desired drives and DBASE.COM and DBASEOVR.COM have been copied to the drive containing the command files, the program INSTALL.CMD must be run to install printer and control codes. To run the install program, the user types DBASE INSTALL <CR>. The printer manual should be ready, as the system will prompt for the control codes to change pitch, start emphasized print, and other information. All codes must be entered in ASCII decimal. If the printer does not support a feature requested in the install program, the user

Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes
ACT	DBF	2K	DAYS	NDX	2K	MISC	DBF	2K	WEQ	DBF	2K
ACT	NDX	2K	EQ	DBF	2K	PDF	DBF	2K	WEQ	NDX	2K
BILL	DBF	2K	EQ	NDX	2K	PDF	NDX	2K	WMANDAYSDBF		2K
BILL	NDX	2K	EQCOST	DBF	2K	PS	DBF	2K	WMANDAYSNDX		2K
BN	DBF	2K	EQCOST	NDX	2K	PS	NDX	2K	WPR	DBF	2K
BN	NDX	2K	GROUPS	DBF	2K	SCHEDULEDBF		2K	WPR	NDX	2K
CLUSTERSDBF		2K	GROUPS	NDX	2K	SCHEDULENDX		2K			
CLUSTERSNDX		2K	MANDAYS	DBF	2K	WACT	DBF	2K			
DAYS	DBF	2K	MANDAYS	NDX	2K	WACT	NDX	2K			

33 File(s), occupying 66K of 340K total capacity
31 directory entries and 274K bytes remain on D:

Figure 2. Data base distribution diskette directory.

Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes	Name	Ext	Bytes
ACMS	CMD	20K	! EQAUDITCMD	6K	! PDF1	CMD	4K	! SCHEDULECMD	18K		
BACKUP	CMD	4K	! EQCOST CMD	8K	! PDF2	CMD	4K	! SPPDF	CMD	4K	
BILL	CMD	4K	! EQRPT CMD	8K	! PDFMNU	CMD	10K	! WCSRPT	CMD	8K	
BILLRPT	CMD	10K	! GROUPS CMD	12K	! PDFMNU2	CMD	6K	! WPR	CMD	6K	
BNRPT	CMD	8K	! INSTALLCMD	20K	! PPDF	CMD	4K	! WPR1	CMD	4K	
CLUSTERSCMD		12K	! IWPR CMD	24K	! PS	CMD	10K	! WPR2	CMD	14K	
COSTRPT	CMD	8K	! LISTPDFCMD	2K	! PSR	CMD	8K				
EDEQ	CMD	6K	! MCTRPT CMD	10K	! PSRPT	CMD	12K				
EDEQA	CMD	4K	! PDF CMD	4K	! S3RPT	CMD	8K				

33 File(s), occupying 290K of 340K total capacity

27 directory entries and 50K bytes remain on D:

Figure 3. Directory display of command file disk.

presses return; the default is a space (ASCII 20) and will not affect the output. The install program stores the control codes in a dBASE-II memory file named INSTALL.MEM. This file will be returned to memory through RESTORE by the menu command file ACMS.CMD, and the other command files will use these memory variables for printer control. The file INSTALL.MEM must be present on the drive containing the command files. The INSTALL.CMD program can be run at any time to redefine the control codes; this program then executes the menu command file ACMS.CMD. After installation, the ACMS system is entered by typing DBASE ACMS <CR>.

Use of Appendices

Users making custom installations of the ACMS version 84.0 should study the appendices thoroughly. Appendix A is a complete listing of all command files in the ACMS system. The single-user command files have extensions of .ONE. Appendix B gives the structure of the data base files and the key expressions for the indices. Appendix C shows where data base files are used in the command files.

APPENDIX A:

COMMAND FILE LISTINGS

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BACKUP.CMD	24
BILL.CMD	27
BILLRPT.CMD	30
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EDEQA.CMD	57
EQAUDIT.CMD	60
EQCOST.CMD	64
EQRPT.CMD	69
GROUPS.CMD	75
INSTALL.CMD	81
IWPR.CMD	95
LISTPDF.CMD	111
MCTRPT.CMD	113
PDF.CMD	118
PDF1.CMD	120
PDF2.CMD	122
PDFMNU.CMD	125
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PPDF.CMD	135
PS.CMD	138
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SINGLE-USER SYSTEM COMMAND FILES

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A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: ACMS.CMD

DESCRIPTION: This program is an example menu system for the Automated Construction Management System. By studying the layout and the menus, a good understanding of the functional modules of the ACMS may be obtained. Users should customize for their application.

MENUS:

Construction Management

Project Control

Report Generation

Data Base Backup

CALLS:

WPR.CMD

PDFMNU.CMD, CLUSTERS.CMD, EQCOST.CMD
IWPR.CMD, BILL.CMD, PS.CMD

WCSRPT.CMD, S3RPT.CMD, PSR.CMD
BILLRPT.CMD, BNRPT.CMD, MCTRPT.CMD

BACKUP.CMD

SET TALK OFF
SET COLON OFF

?

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IF linst<>'Y'
  ERASE
  QUIT
ELSE
  *****
  DO INSTALL
  *****
ENDIF
ENDIF
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
*****M-E-N-U****S-T-A-R-T-S****H-E-R-E*****
SET TALK OFF
SET COLON OFF
STORE '1' TO cmd
STORE "OPTION" TO opt
DO WHILE cmd<> 'Q0'
  ERASE
  STORE '1' TO cmd
  STORE "CONSTRUCTION MANAGEMENT" TO menu
  @ 1, 9 SAY "*****"
  @ 2, 9 SAY "*"
  @ 2,66 SAY "*"
  @ 3, 9 SAY "*"
  @ 4, 9 SAY "*"
  @ 4,28 GET menu
  CLEAR GETS
  @ 4,51 SAY " > > > "
  @ 5, 9 SAY "*****"
  @ 6, 9 SAY "*"
  @ 7, 9 SAY "<1> PROJECT CONTROL"
  @ 8, 9 SAY "*"

```

```

@ 9, 9 SAY "*"      <2>  REPORT GENERATION          "*"
@ 10, 9 SAY "*"
@ 11, 9 SAY "*"      <3>  INPUT WEEKLY PROGRESS REPORTS  "*"
@ 12, 9 SAY "*"
@ 13, 9 SAY "*"      <4>  DATA BASE BACKUP             "*"
@ 14, 9 SAY "*"
@ 15, 9 SAY "*"      <0>  QUIT                          "*"
@ 16, 9 SAY "*"
@ 17, 9 SAY "*"
@ 18, 9 SAY "*"
@ 18,31 GET opt
CLEAR GETS
@ 18,39 SAY "<"
@ 18,40 GET cmd PICTURE '9'
@ 18,41 SAY ">"
@ 19, 9 SAY "*****"
READ
CLEAR GETS

DO CASE

CASE cmd= '0'

ERASE
QUIT

CASE cmd= '1'

DO WHILE cmd<> 'Q2'

STORE '1' TO cmd
STORE "PROJECT CONTROL" TO menu
ERASE
@ 1, 9 SAY "*****"
@ 2, 9 SAY "*"      "+orgname
@ 2,66 SAY "*"
@ 3, 9 SAY "*"      AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM  "*"
@ 4, 9 SAY "*"      < < < "
@ 4,30 GET menu
CLEAR GETS
@ 4,46 SAY "> > >"      "*"
@ 5, 9 SAY "*****"
@ 6, 9 SAY "*"
@ 7, 9 SAY "*"      <1>  PROJECT DATA BASE              "*"
@ 8, 9 SAY "*"
@ 9, 9 SAY "*"      <2>  REPORTING GROUPS ROSTER          "*"
@ 10, 9 SAY "*"
@ 11, 9 SAY "*"      <3>  EQUIPMENT DATA BASE            "*"
@ 12, 9 SAY "*"
@ 13, 9 SAY "*"      <4>  INITIAL WEEKLY PROGRESS REPORT  "*"

```



```

@ 14, 9 SAY "*"
@ 15, 9 SAY "*" <5> CUSTOMER BILLING DATA BASE
@ 16, 9 SAY "*"
@ 17, 9 SAY "*" <6> -- PROCESS WPR'S --
@ 18, 9 SAY "*"
@ 19, 9 SAY "*" <0> QUIT
@ 20, 9 SAY "*"
@ 21, 9 SAY "*"
@ 21,31 GET opt
CLEAR GETS
@ 21,39 SAY "<"
@ 21,40 GET cmd PICTURE '9'
@ 21,41 SAY ">"
@ 22, 9 SAY "*****"
READ
CLEAR GETS

DO CASE

CASE cmd= '1'

*****
DO pdfmnu
*****
* * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '2'

*****
DO clusters
*****
* * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '3'

*****
DO eqcost
*****
* * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

```

CASE cmd= '4'

DO iwpr

* * make sure prim and second are clear

SELECT PRIMARY

USE

SELECT SECONDARY

USE

CASE cmd= '5'

DO bill

* * make sure prim and second are clear

SELECT PRIMARY

USE

SELECT SECONDARY

USE

CASE cmd= '6'

DO ps

* * make sure prim and second are clear

SELECT PRIMARY

USE

SELECT SECONDARY

USE

CASE cmd= '0'

STORE 'Q2' TO cmd

LOOP

ENDCASE

ENDDO WHILE cmd<> 'Q2'

CASE cmd= '2'

DO WHILE cmd<> 'Q3'

STORE '1' TO cmd

STORE "REPORT GENERATION" TO menu

ERASE

@ 1, 9 SAY "*****"

@ 2, 9 SAY "*" "orgname"

```

@ 2,66 SAY "*"
@ 3, 9 SAY "*"      AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM      "*"
@ 4, 9 SAY "*"      < < < "
@ 4,29 GET menu
CLEAR GETS
@ 4,47 SAY "> > >      *"
@ 5, 9 SAY "*****"
@ 6, 9 SAY "*"
@ 7, 9 SAY "*"      <1>  WEEKLY CONSTRUCTION STATUS REPORT      "*"
@ 8, 9 SAY "*"
@ 9, 9 SAY "*"      <2>  S-3 WEEKLY REPORT      "*"
@ 10, 9 SAY "*"
@ 11, 9 SAY "*"      <3>  PROJECT STATUS REPORT      "*"
@ 12, 9 SAY "*"
@ 13, 9 SAY "*"      <4>  CUSTOMER BILLING REPORT      "*"
@ 14, 9 SAY "*"
@ 15, 9 SAY "*"      <5>  BATTALION COST REPORT      "*"
@ 16, 9 SAY "*"
@ 17, 9 SAY "*"      <6>  MONTHLY TROOP CONSTRUCTION REPORT      "*"
@ 18, 9 SAY "*"
@ 19, 9 SAY "*"      <0>  QUIT      "*"
@ 20, 9 SAY "*"
@ 21, 9 SAY "*"
@ 21,31 GET opt
CLEAR GETS
@ 21,39 SAY "<"
@ 21,40 GET cmd PICTURE '9'
@ 21,41 SAY ">      *"
@ 22, 9 SAY "*****"
READ
CLEAR GETS

DO CASE

CASE cmd= '1'

*****
DO wcsrpt
*****
*      * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '2'

*****
DO s3rpt
*****
*      * make sure prim and second are clear
SELECT PRIMARY

```

```
USE
SELECT SECONDARY
USE

CASE cmd= '3'

*****
DO psr
*****
*      * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '4'

*****
DO billrpt
*****
*      * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '5'

*****
DO bnrpt
*****
*      * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '6'

*****
DO mctrpt
*****
*      * make sure prim and second are clear
SELECT PRIMARY
USE
SELECT SECONDARY
USE

CASE cmd= '0'

STORE 'Q3' TO cmd
LOOP
```

ENDCASE

ENDDO WHILE cmd<> 'Q3'

CASE cmd= '3'

DO wpr

* * make sure prim and second are clear

SELECT PRIMARY

USE

SELECT SECONDARY

USE

CASE cmd= '4'

DO WHILE cmd<> 'Q5'

ERASE

STORE '1' TO cmd

STORE "DATA BASE BACKUP" TO menu

@ 1, 9 SAY "*****"

@ 2, 9 SAY "*" "orgname"

@ 2,66 SAY "*" "

@ 3, 9 SAY "*" AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM *

@ 4, 9 SAY "*" < < < "

@ 4,30 GET menu

CLEAR GETS

@ 4,47 SAY "> > > *"

@ 5, 9 SAY "*****"

@ 6, 9 SAY "*" *

@ 7, 9 SAY "*" <1> AFTER PROCESSING DATA BASE BACKUP (TO A:) *

@ 8, 9 SAY "*" *

@ 9, 9 SAY "*" <2> BACKUP EQUIPMENT COST DATA BASE (TO B:) *

@ 10, 9 SAY "*" *

@ 11, 9 SAY "*" <3> BACKUP IWPR DATA BASE (TO B:) *

@ 12, 9 SAY "*" *

@ 13, 9 SAY "*" <4> BACKUP PROJECT DATA BASE (TO B:) *

@ 14, 9 SAY "*" *

@ 15, 9 SAY "*" <0> QUIT *

@ 16, 9 SAY "*" *

@ 17, 9 SAY "*" "

@ 17,31 GET opt

CLEAR GETS

@ 17,39 SAY "<"

@ 17,40 GET cmd PICTURE '9'

@ 17,41 SAY "> *"

@ 18, 9 SAY "*****"

```
READ
CLEAR GETS
```

```
DO CASE
```

```
  CASE cmd= '1'
```

```
    *****
```

```
    DO backup
```

```
    *****
```

```
    *      * make sure prim and second are clear
```

```
    SELECT PRIMARY
```

```
    USE
```

```
    SELECT SECONDARY
```

```
    USE
```

```
  CASE cmd= '2'
```

```
    SELECT PRIMARY
```

```
    USE
```

```
    USE eqcost
```

```
    COPY STRUCTURE TO b:eqcost
```

```
    USE b:eqost
```

```
    INDEX ON STR(eno,4,0)+STR(atchno,2,0) TO b:eqcost
```

```
    SET INDEX TO b:eqcost
```

```
    APPEND FROM a:eqcost
```

```
    USE
```

```
  CASE cmd= '3'
```

```
    SELECT PRIMARY
```

```
    USE
```

```
    USE a:act
```

```
    COPY STRUCTURE TO b:act
```

```
    USE b:act
```

```
    INDEX ON sno+str(i,4,0)+str(j,4,0) TO b:act
```

```
    SET INDEX TO b:act
```

```
    APPEND FROM a:act
```

```
    USE
```

```
  CASE cmd= '4'
```

```
    SELECT PRIMARY
```

```
    USE
```

```
    USE pdf
```

```
    COPY STRUCTURE TO b:pdf
```

```
    USE b:pdf
```

```
    INDEX ON sno TO b:pdf
```

```
    SET INDEX TO b:pdf
```

```
    APPEND FROM a:pdf
```

```
    USE
```

```
    USE ps
```

```
COPY STRUCTURE TO b:ps
USE b:ps
INDEX ON sno TO b:ps
SET INDEX TO b:ps
APPEND FROM a:ps
USE
```

```
CASE cmd= '0'
```

```
STORE 'Q5' TO cmd
LOOP
```

```
ENDCASE
```

```
ENDDO WHILE cmd<> 'Q5'
```

```
ENDCASE
```

```
ENDDO WHILE cmd<> 'Q0'
```

```
*
```

```
*      * END ACMS.CMD
```

```
*
```

*

*

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*

*

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*

PROGRAM: BACKUP.CMD

*

*

DESCRIPTION: Data base backup program to clear processed data from weekly temporary data bases. All weekly input data base file names begin with "W". Backs off data contained in WPR.DBF, WMANDAYS.DBF, WACT.DBF, and WEQ.DBF. Copies all data entered on or after the last processing date to files of the type W???mmdd.DBF, where mmdd is the last processing date. The program copies these files to the floppy drive (C:) and a COPY of the project status data base PS.CMD.

*

*

CALLS: none

*

ERASE

SET TALK OFF

SET COLON OFF

@ 1,0

? ' WEEKLY DATA BASE BACKUP'

CLEAR GETS

* * get date of last processing

USE misc

STORE date TO mdate

USE

* * all created .dbf files have month and day in file name

* * example: WPR0708.DBF <= WPR&mmdd.DBF

STORE \$(mdate,1,4) TO mmdd

@ 5,0

? ' Backing off CERL data '

USE wpr INDEX wpr

COPY TO wpr&mmdd FOR week<=mdate

COPY TO tt FOR week>mdate

USE tt

COPY TO wpr

USE wpr

INDEX ON sno+week TO wpr

? ' Backing off old mandays data'

USE wmandays INDEX wmandays

COPY TO wman&mmdd FOR week<=mdate

COPY TO tt FOR week>mdate

USE tt


```

COPY TO wmandays
USE wmandays
INDEX ON sno+week TO wmandays

```

```

? '                               Backing off old CPM data'
USE wact INDEX wact
COPY TO wact&mmdd FOR week<=mdate
COPY TO tt FOR week>mdate
USE tt
COPY TO wact
USE wact
INDEX ON sno+week+str(i,4,0)+str(j,4,0) TO wact

```

```

? '                               Backing off old equipment data'
USE weq INDEX weq
COPY TO weq&mmdd FOR week<=mdate
COPY TO tt FOR week>mdate
USE eq index eq
append from weq&mmdd
USE tt
COPY TO weq
USE weq
INDEX ON sno+week TO weq
USE
DELETE FILE tt
ERASE

```

```
@ 1,0
```

```
?
```

```
? "                               Insert Diskette in Drive to make CERL Data Disk"
```

```
?
```

```
? "                               Press RETURN when ready to copy"
```

```
SET CONSOLE OFF
```

```
WAIT
```

```
SET CONSOLE ON
```

```
?
```

```
? "                               WAIT...COPYING"
```

```
*                               * floppy drive is C: on Televideo TS 806
```

```
SET DEFA TO C:
```

```
RESET C:
```

```
SET DEFA TO A:
```

```
USE wpr&mmdd
```

```
COPY to c:wpr&mmdd
```

```
USE wman&mmdd
```

```
COPY to c:wman&mmdd
```

```
USE weq&mmdd
```

```
COPY to c:weq&mmdd
```

```
USE wact&mmdd
```

```
COPY to c:wact&mmdd
```

```
USE
```

```
*                               * if file has been copied to floppy, delete from hard disk (A:)
```

```
IF FILE ('c:wpr&mmdd')
```

```
DELETE FILE a:wpr&mmdd
```

BACKUP.CMD

```
ENDIF
IF FILE ('c:wman&mmdd')
DELETE FILE a:wman&mmdd
ENDIF
IF FILE ('c:weq&mmdd')
DELETE FILE a:weq&mmdd
ENDIF
IF FILE ('c:wact&mmdd')
DELETE FILE a:wact&mmdd
ENDIF
USE
*      * get copy of project status data base for analysis
USE PS
COPY TO c:ps&mmdd
USE
RETURN
*
*      * END BACKUP.CMD
*
```

*

*

*

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*

*

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*

PROGRAM: BILL.CMD

*

*

DESCRIPTION: This program allows the user to set up customer billing system based on construction Project Number. Charges against all projects having the same project number in the project data base (PDF.DBF) will be accumulated in BILL.DBF, one record for each Project Number. Also stores header information for the bill.

*

*

CALLS: None

*

ERASE

SET TALK OFF

SET COLON OFF

SET DELETE ON

SELECT PRIMARY

USE bill INDEX bill

SELECT SECOND

USE pdf

STORE "XXXXXXXXXXXXX" TO mpno

STORE "Y" TO mmore

DO WHILE !(mmore)= "Y"

ERASE

@ 1,22 SAY "CUSTOMER BILLING"

@ 3, 5 SAY "PN Number : " GET mpno

* * get directive number form user

READ

CLEAR GETS

SELECT SECOND

LOCATE FOR pno=mpno

IF pno<>mpno

@ 4,14 SAY "Unknown PNO Number. Try again? (y/n) " GET mmore

READ

IF !(mmore)<>'Y'

STORE 'N' TO mmore

LOOP

CLEAR GETS

ENDIF

```

ELSE
  SELECT PRIMARY
  FIND "&mpno"

  IF #=0
    *      * not in data base so add it
    APPEND BLANK
    REPLACE pno WITH mpno, FROM WITH "XXXXXX" , billno WITH 1
  ENDIF #=0
    *      * display header information
    @ 5, 0 SAY "BILLING NUMBER:"
    @ 5,16 SAY billno
    @ 5,39 SAY "From: " +FROM
    @ 7, 0 SAY "DA FORM 2544:"
    @ 7,14 GET da
    @ 7,39 SAY "DATE:"
    @ 7,45 GET DATE
    @ 9, 0 SAY "TITLE:"
    @ 9, 7 GET title
    @ 9,39 SAY "UNIT:"
    @ 9,45 GET unit
    @ 11,0 SAY "Schedules Included: "
    ?? "          <Type CTR-Q to abort>"
    SELECT SECOND
    STORE 12 TO row
    STORE 0 TO col
    *      up to 80 schedules can be displayed on the crt without
    *      destroying the screen format.

    DO WHILE .NOT.EOF
      @ row,col SAY sno
      IF col=80
        STORE 0 TO col
        STORE row+1 TO row
      ELSE
        STORE col+10 TO col
      ENDIF col=80
      CONTINUE
    ENDDO WHILE .NOT.EOF

    *      * display edit control keys for user
    @ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field;
    ; CTR-D: next character ;"
    @ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"

    SELECT PRIMARY
    READ
    CLEAR GETS
    @ 20,0
    @ 21,0
    @ 20,7 SAY "continue? (y/n) " GET mmore
    READ

```

BILL.CMD

CLEAR GETS

ENDIF pno<>mpno

ENDDO !(more)= "y"

ERASE
RETURN

*

* * END BILL.CMD

*

```

*****
*
*
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*
*           USA-CERL
*
*   PROGRAM: BILLRPT.CMD
*
*   DESCRIPTION: Prints a bill for each Project Number in BILL.DBF.
*                 Billing number is incremented each time the report is
*                 generated. Designed as a weekly report. Stores cumulatives
*                 in BILL.DBF.
*
*   CALLS: None
*
*****
ERASE
SET TALK OFF
SET COLON OFF
SET DELETE ON
*       * get last processing date
USE misc
GO TOP
STORE date TO mdate

@ 1,0 SAY '           PROCESS WEEKLY PROGRESS REPORTS'
@ 4,0 SAY '           Customer Billing'
@ 5,0 SAY '           For Period Ending:' GET mdate
CLEAR GETS
@ 8,29 SAY 'PROCESSING'
*       * string memory variables of the type list# are used to store
*       * schedule numbers of tasks included in the bill
*       * they are written to disk files list#.mem
*       * erase any old list&no..mem files
STORE '1' TO no
DO WHILE &no < 10
  IF FILE( 'list&no..mem' )
    DELETE FILE LIST&no..mem
  ENDIF FILE( 'list&no..mem' )
  STORE str(&no+1,1,0) TO no
ENDDO WHILE &no < 10

SELECT SECOND
USE pdf INDEX pdf

SELECT PRIMARY
USE bill INDEX bill
GOTO TOP

```

```

DO WHILE .NOT.EOF
  STORE pno TO mpno
  *      * mac?: variables used to sum 'allocated funds' ( ac? in ps.dbf)
  STORE 0 TO mac1
  STORE 0 TO mac2
  STORE 0 TO mac3
  STORE 0 TO mac4
  STORE 0 TO mac5
  *      * mec?: variables used to sum 'expanded funds' ( ec? in ps.dbf)
  STORE 0 TO mec1
  STORE 0 TO mec2
  STORE 0 TO mec3
  STORE 0 TO mec4
  STORE 0 TO mec5
  @ 12,25 SAY 'Project Number:' GET mpno
  CLEAR GETS
  SELECT PRIMARY
  USE ps INDEX ps
  SELECT SECOND
  LOCATE FOR pno=mpno
  STORE '1' TO no
  *      * snolist is a memory variable string to store
  *      * schedule numbers used
  *      * maximum string lenght is 255 characters
  STORE " " TO snolist&no
  STORE customer TO mcustomer

DO WHILE .NOT.EOF

  STORE sno TO msno
  IF len(snolist&no)<210
    STORE snolist&no+msno+ " " TO snolist&no
  ELSE
    SAVE TO LIST&no ALL LIKE snolist&no
    RELEASE snolist&no
    STORE str(&no+1,1,0) TO no
    STORE " " +msno+ " " TO snolist&no
  ENDIF len(snolist&no)<240

  SELECT PRIMARY
  FIND "&msno"

  STORE mac1+ac1 TO mac1
  STORE mac2+ac2 TO mac2
  STORE mac3+ac3 TO mac3
  STORE mac4+ac4 TO mac4
  STORE mac5+ac5 TO mac5

  STORE mec1+ec1 TO mec1
  STORE mec2+ec2 TO mec2
  STORE mec3+ec3 TO mec3

```

```
STORE mec4+ec4 TO mec4
STORE mec5+ec5 TO mec5
```

```
SELECT SECOND
CONTINUE
```

```
ENDDO WHILE .NOT.EOF
```

```
SELECT PRIMARY
USE bill INDEX bill
FIND "&mpno"
STORE mac1+mac2+mac3+mac4+mac5 TO mac6
STORE mec1+mec2+mec3+mec4+mec5 TO mec6
STORE ustdy+usequip+csgtdy+csgequip+csglbr TO TOTAL
```

```
IF len(snolist1)=4
*           * no schedules with dno=mpno
SET FORMAT TO PRINT
@ 15,3 SAY "Warning: no schedules found for directive no.: &mpno"
EJECT
SET FORMAT TO SCREEN
ELSE
```

```
*-----SEND REPORT TO PRINTER-----
SET FORMAT TO PRINT
SET MARGIN TO 0
```

```
*           * bill_this_period = cost_todate - previous_bill
*           * b?: billings this time
STORE mec1-ustdy TO b1
STORE mec2-usequip TO b2
STORE mec3-csgtdy TO b3
STORE mec4-csgequip TO b4
STORE mec5-csglbr TO b5
*           * ba?: balance this time
STORE mac1-mec1 TO ba1
STORE mac2-mec2 TO ba2
STORE mac3-mec3 TO ba3
STORE mac4-mec4 TO ba4
STORE mac5-mec5 TO ba5
STORE mec6-TOTAL TO b6
STORE mac6-mec6 TO ba6
*
```

```
@ 4,22 SAY "CUSTOMER BILLING"
@ 8, 0 SAY "PN      NUMBER:"
@ 8,14 SAY mpno
@ 8,39 SAY "CUSTOMER: &mcustomer"
@ 10, 0 SAY "BILLING NUMBER:"
@ 10,16 SAY billno
@ 10,39 SAY "From:"
@ 10,45 SAY FROM
@ 10,52 SAY "To:"
```


PROJECT	PREVIOUS	BILLING
TYPE OF	ALLOCATED	COST
CUMULATIVE	THIS	
FUNDS	FUNDS	TO DATE
BILLING	PERIOD	

```
@ 22, 0 SAY "|" US TDY      "|"  
@ 22,13 SAY mac1  
@ 22,24 SAY ""  
@ 22,25 SAY mec1  
@ 22,36 SAY ""  
@ 22,37 SAY ustdy  
@ 22,49 SAY ""  
@ 22,50 SAY bl  
@ 22,61 SAY ""  
@ 22,62 SAY bal  
@ 22,73 SAY ""  
@ 23, 0 SAY "+-----+"
```

```
@ 24, 0 SAY "|" US EQUIP  "|"
@ 24,13 SAY mac2
@ 24,24 SAY  "|"
@ 24,25 SAY mec2
@ 24,36 SAY  "|"
@ 24,37 SAY usequip
@ 24,49 SAY  "|"
@ 24,50 SAY b2
@ 24,61 SAY  "|"
@ 24,62 SAY ba2
@ 24,73 SAY  "|"
@ 25, 0 SAY "+-----+
```

33


```

DELETE FILE LIST&mi..mem
ENDIF FILE( 'list&mi..mem' )
*      * print out schedule numbers included in bill
@ 40+row,0 SAY $(snolist&mi,1,70)
STORE row+1 TO row
IF len(snolist&mi)>70
  @ 40+row,0 SAY $(snolist&mi,71,70)
  STORE row+1 TO row
  IF len(snolist&mi)>140
    @ 40+row,0 SAY $(snolist&mi,141,70)
    STORE row+1 TO row
  ENDIF len(snolist&mi)>200
ENDIF len(snolist&mi)>50
RELEASE ALL LIKE snolist&mi
STORE str(&mi+1,1,0) TO mi
ENDDO WHILE &mi<=&no

```

```

EJECT
SET FORMAT TO SCREEN

```

```

*      * increment bill number
REPLACE billno WITH billno+1
*      * store current date for next bill
REPLACE from WITH mdate
*      * store cumulative charges
REPLACE ustdy WITH mec1,usequip WITH mec2,csgtdy WITH mec3
REPLACE csgequip WITH mec4, csglbr WITH mec5
SKIP +1

```

```

ENDDO WHILE .NOT.EOF

```

```

ERASE
RETURN

```

```

*
*      * END BILLPRT.CMD
*

```

*

*

*

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*

*

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*

PROGRAM: BNRPT.CMD

*

*

DESCRIPTION: Generates a battalion cost report for each battalion.
One record per battalion is generated by PDF.CMD as
tasks are entered. This program is similar to
BILLRPT.CMD. The battalion record is updated each
time the report is printed.

*

*

CALLS: none

*

ERASE

SET TALK OFF

SET COLON OFF

SET DELETE ON

* * get printer/console control codes

RESTORE FROM install ADDITIVE

* * get date of last processing

USE misc

STORE date TO mdate

* * routine to convert mmddyy to military date dddmmmyy

STORE 'JANFEBMARAPR MAYJUNJUL AUGSEP OCTNOVDEC' TO year

STORE \$(mdate,1,2) TO mnth

STORE \$(mdate,3,2)+ ' ' +\$(year,(val(mnth)*3-2),3)+ ' ' +\$(mdate,5,2) TO mil

@ 1,0 SAY ' BATTALION COST REPORT'

@ 3,0 SAY ' For Period Ending: ' GET mil

CLEAR GETS

@ 6,29 SAY rv+'PROCESSING'+rvoff

* * release any old list#.mem files

STORE '1' TO no

DO WHILE &no < 10

IF FILE('list&no..mem')

DELETE FILE LIST&no..mem

ENDIF FILE('list&no..mem')

STORE str(&no+1,1,0) TO no

ENDDO WHILE &no < 10

USE

SELECT SECOND

USE pdf

INDEX ON bn TO pdf.bn

SET INDEX TO pdf.bn

GO TOP

STORE bn TO mbn

STORE sno TO msno

```
@ 12,25 SAY '   Battalion : ' GET mbn
CLEAR GETS
STORE t TO c
STORE t TO b
```

```
DO WHILE b
  STORE '1' TO no
  STORE "   " TO snolist&no
```

```
STORE 0 TO mec1
STORE 0 TO mec2
STORE 0 TO mec3
STORE 0 TO mec4
STORE 0 TO mec5
STORE 0 TO mac1
STORE 0 TO mac2
STORE 0 TO mac3
STORE 0 TO mac4
STORE 0 TO mac5
```

```
SELECT PRIMARY
USE ps INDEX ps
```

```
DO WHILE c
  SELECT PRIMARY
  FIND '&msno'
  STORE ec1+mec1 TO mec1
  STORE ec2+mec2 TO mec2
  STORE ec3+mec3 TO mec3
  STORE ec4+mec4 TO mec4
  STORE ec5+mec5 TO mec5
  STORE ac1+mac1 TO mac1
  STORE ac2+mac2 TO mac2
  STORE ac3+mac3 TO mac3
  STORE ac4+mac4 TO mac4
  STORE ac5+mac5 TO mac5
```

```
IF len(snolist&no)<210
  STORE snolist&no+msno+ "   " TO snolist&no
ELSE
  SAVE TO LIST&no ALL LIKE snolist&no
  RELEASE snolist&no
  STORE str(&no+1,1,0) TO no
  STORE "   " +msno+ "   " TO snolist&no
ENDIF len(snolist&no)<240
```

```
SELECT SECOND
SKIP +1
```

```
IF s.bn<>mbn
  STORE bn TO mbn2
  STORE # TO r
  STORE f TO c
```

```

ELSE
    STORE sno TO msno
ENDIF s.bn<>mbn

IF EOF
    STORE f TO c
    STORE f TO b
ENDIF

ENDDO WHILE c

SELECT PRIMARY
USE bn INDEX bn
FIND "&mbn"
STORE mac1+mac2+mac3+mac4+mac5 TO mac6
STORE mec1+mec2+mec3+mec4+mec5 TO mec6
STORE ustdy+usequip+csgtdy+csgequip+csglbr TO TOTAL

*-----send report to printer-----
SET FORMAT TO PRINT
SET MARGIN TO 0

*      * bill_this_period = cost_todate - previous_bill
*      * the previous bills have always been balanced.
*      * b?: billings this atime
STORE mec1-ustdy TO b1
STORE mec2-usequip TO b2
STORE mec3-csgtdy TO b3
STORE mec4-csgequip TO b4
STORE mec5-csglbr TO b5
*      * ba?: balance this time
STORE mac1-mec1 TO ba1
STORE mac2-mec2 TO ba2
STORE mac3-mec3 TO ba3
STORE mac4-mec4 TO ba4
STORE mac5-mec5 TO ba5
STORE mec6-TOTAL TO b6
STORE mac6-mec6 TO ba6
STORE FROM TO mfrom
*      * routine to convert mmdyy to military date ddmmyy
STORE $(mfrom,1,2) TO mnth
STORE $(mfrom,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mfrom,5,2) TO
fromil
*
@ 4,22 SAY "BATTALION COSTS"
@ 8, 0 SAY "BATTALION :"
@ 8,12 SAY mbn
@ 8,39 SAY "From:"
@ 8,45 SAY fromil
@ 10, 0 SAY "REPORT NUMBER:"
@ 10,14 SAY billno
@ 10,39 SAY "To:"

```



```

@ 28,24 SAY "|"
@ 28,25 SAY mec4
@ 28,36 SAY "|"
@ 28,37 SAY csgequip
@ 28,49 SAY "|"
@ 28,50 SAY b4
@ 28,61 SAY "|"
@ 28,62 SAY ba4
@ 28,73 SAY "|"
@ 29, 0 SAY "+-----+

```

```

+-----+
@ 30, 0 SAY "| CSG LABOR |"
@ 30,13 SAY mac5
@ 30,24 SAY "|"
@ 30,25 SAY mec5
@ 30,36 SAY "|"
@ 30,37 SAY csglbr
@ 30,49 SAY "|"
@ 30,50 SAY b5
@ 30,61 SAY "|"
@ 30,62 SAY ba5
@ 30,73 SAY "|"
@ 31, 0 SAY "+-----+

```

```

+-----+
@ 32, 0 SAY "| TOTAL      |"
@ 32,13 SAY mac6
@ 32,24 SAY "|"
@ 32,25 SAY mec6
@ 32,36 SAY "|"
@ 32,37 SAY TOTAL
@ 32,49 SAY "|"
@ 32,50 SAY b6
@ 32,61 SAY "|"
@ 32,62 SAY ba6
@ 32,73 SAY "|"
@ 33, 0 SAY "+-----+

```

```

+-----+
@ 35,0 SAY "Tasks Included:"
*      * print tasks included in this report
STORE '1' TO mi
STORE 0 TO row
DO WHILE &mi<=&no
  IF FILE( 'list&mi..mem' )
    RESTORE FROM LIST&mi additive
    DELETE FILE LIST&mi..mem
  ENDIF FILE( 'list&mi..mem' )
  * print out schedule numbers included in bill
  @ 40+row,0 SAY $(snolist&mi,1,70)
  STORE row+1 TO row
  IF len(snolist&mi)>70
    @ 40+row,0 SAY $(snolist&mi,71,70)
    STORE row+1 TO row

```



```

    IF len(snolist&mi)>140
      @ 40+row,0 SAY $(snolist&mi,141,70)
      STORE row+1 TO row
    ENDIF len(snolist&mi)>200
  ENDIF len(snolist&mi)>50
  RELEASE ALL LIKE snolist&mi
  STORE str(&mi+1,1,0) TO mi
ENDDO WHILE &mi<=&no
EJECT
SET FORMAT TO SCREEN
*   * increment bill number
REPLACE billno WITH billno+1
*   * store current date for next bill
REPLACE FROM WITH mdate
*   * store cumulative charges
REPLACE ustdy WITH mec1,usequip WITH mec2,csgtdy WITH mec3
REPLACE csgequip WITH mec4, csglbr WITH mec5

STORE t TO c
IF .not.b
  LOOP
ENDIF .not.b
SELECT SECOND
USE pdf INDEX pdf.bn
FIND '&mbn2'
STORE bn TO mbn
STORE sno TO msno
*   * show user what battalion is being processed
@ 12,0
@ 12,25 SAY '   Battalion : ' GET mbn
CLEAR GETS
ENDDO WHILE b
ERASE
RETURN
*
*   * END BNRPT.CMD
*
```

```
*****
*
*
*           A - C - M - S  Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: CLUSTERS.CMD
*
*   DESCRIPTION: This program allows the user to define "Project Reporting
*                Groups," basically, sets of Schedule Numbers over which
*                summary status reports are generated.  A "cluster" is a
*                set of mutually exclusive Groups.  Maximum is nine
*                clusters.
*
*   CALLS: GROUPS.CMD
*
*****
```

```
ERASE
SET COLON OFF
SET TALK OFF
SET DELETE ON
STORE "E" TO cmd
```

```
DO WHILE !(cmd)<> "Q"
```

```
  *   * set up input screen
```

```
  ERASE
```

```
  @ 1,21 SAY "CLUSTERS OF PROJECT REPORTING GROUPS"
```

```
  @ 3, 2 SAY "-----"
  "
```

```
  @ 4, 2 SAY
```

```
  "|
```

```
  @ 5, 2 SAY "| 1>
```

```
2>
```

```
3>
```

```
"
```

```
  @ 6, 2 SAY
```

```
  "|
```

```
  @ 7, 2 SAY
```

```
  "|
```

```
  @ 8, 2 SAY
```

```
  "|
```

```
  @ 9, 2 SAY "| 4>
```

```
5>
```

```
6>
```

```
"
```

```
  @ 10, 2 SAY
```

```
  "|
```

```
  @ 11, 2 SAY
```

```
  "|
```

```

|"
@ 12, 2 SAY
|"
@ 13, 2 SAY "| 7>          8>
9>          |"
@ 14, 2 SAY
|"
@ 15, 2 SAY
|"
@ 16, 2 SAY
|"=====|
|"
@ 17, 2 SAY
|"
@ 18, 2 SAY "|      E to edit/display/add a cluster      P to print
groups/schedule no.'s |"
@ 19, 2 SAY "|      D to delete a cluster                Q to quit to main
menu        |"
@ 20, 2 SAY
|"
@ 21, 2 SAY "| OPTION ?"
@ 21,78 SAY "| "
@ 22, 2 SAY "-----"
|"

```

```

*      * display defined clusters
USE clusters INDEX clusters
GOTO TOP
DO WHILE .NOT. EOF .AND. #<>0
    IF cno = 7
        STORE 2 TO row
    ELSE
        STORE int(cno/4) TO row
    ENDIF
    STORE cno-row*3 TO col
    @ ((row+1)*4)+1, 25*(col-1)+7 SAY cname
    SKIP
ENDDO WHILE .NOT. EOF .AND. #<>0

STORE 1 TO mcno
STORE "E" TO cmd
STORE "Y" TO mnew

DO WHILE !(cmd)<> 'Q' .AND.!(cmd)<> 'B'
    *      * B used for control of call to GROUPS.CMD
    *      * get command from user
    @ 21, 13 GET cmd PICTURE "!"
    READ

```

```

CLEAR GETS
* edit or delete
IF !(cmd)= 'E' .OR.!(cmd)= 'D'
  @ 21,18 SAY "which cluster no.? (1-9)"
  @ 21,43 GET mcno PICTURE "9"
  READ
  CLEAR GETS
  STORE str(mcno,1,0) TO mkey
  IF mkey <> '0'
    FIND "&mkey"
    IF !(cmd)= 'E'
      IF #=0
        @ 21,48 SAY "adding new cluster? (y/n)"
        @ 21,74 GET mnew PICTURE "!"
        READ
        CLEAR GETS
        IF !(mnew)= 'Y'
          APPEND BLANK
          REPLACE cno WITH mcno
          IF cno = 7
            STORE 2 TO row
          ELSE
            STORE int(cno/4) TO row
          ENDIF cno = 7
          STORE cno-(row*3) TO col
          STORE "          Enter the cluster name.;"
          TO mnotel
          @ 21,15 GET mnotel
          CLEAR GETS
          @ ((row+1)*4+1),25*(col-1)+7 GET cname
          READ
          CLEAR GETS
          STORE cname TO mcname
          USE
          *****
          DO groups
          *****
          STORE "B" TO cmd
        ELSE
          IF !(mnew)= 'N'
            @ 21,18 SAY "
            ENDIF !(mnew)= 'N'
          ENDIF !(mnew)= 'Y'
        ELSE
          STORE cname TO mcname
          USE
          *****
          DO groups
          *****
          STORE "B" TO cmd
        ENDIF #=0
      ELSE

```

```

IF # = 0
  @ 21,48 SAY "No such cluster."
ELSE
  @ 21,48 SAY "sure? (y/n)      "
  @ 21,61 GET mnew PICTURE "!"
  READ
  CLEAR GETS
  IF !(mnew) = 'Y'
    IF cno = 7
      STORE 2 TO row
    ELSE
      STORE int(cno/4) TO row
    ENDIF cno = 7
    STORE cno-row*3 TO col
    @ 21,18 SAY

    STORE " WAIT...PROCESSING " TO mnote
    @ ((row+1)*4+1),25*(col-1)+7 GET mnote
    CLEAR GETS
    DELETE
    PACK
    USE groups INDEX groups
    DELETE FOR cno=mcno
    PACK
    USE schedule INDEX schedule
    DELETE FOR cno=mcno
    PACK
    USE clusters INDEX clusters
    @ ((row+1)*4+1),25*(col-1)+7 SAY "
    STORE "E" TO cmd
    STORE 1 TO mcno
  ELSE
    @ 21,18 SAY

    ENDIF !(mnew) = 'Y'
  ENDIF # = 0
  ENDIF !(cmd) = 'E'
  ENDIF mkey <> '0'
  ENDIF !(cmd) = 'E' .OR. !(cmd) = 'D'
  *
  *      * print out schedule numbers by groups
  IF !(cmd) = 'P'
    @ 21,18 SAY "which item no.? (1-9)"
    @ 21,41 GET mcno PICTURE "9"
    READ
    CLEAR GETS
    IF mcno > 0 .AND. mcno < 9
      @ 21,18 SAY "
      STORE " WAIT...PREPARING REPORT FOR PRINT" TO mnote
      @ 21,20 GET mnote
      CLEAR GETS
      USE clusters INDEX clusters

```

```

STORE str(mcno,1,0) TO mkey
FIND "&mkey"
IF #=0
    @ 21,18 SAY '

    STORE "Not a Project Reporting Cluster" TO mnote
    @ 21,48 GET mnote
    CLEAR GETS
ELSE
    STORE cname TO mcname
    USE groups INDEX groups
    FIND '&mkey'
    IF EOF
        @ 21,18 SAY '
        STORE " No Groups in that Cluster" TO mnote
        @ 21,48 GET mnote
        CLEAR GETS
    ELSE
        STORE gno TO mgno
        STORE mkey+str(mgno,2,0) TO mkey2
        STORE gname TO mgname
        @ 21,18 SAY "
        STORE " WAIT...PREPARING REPORT FOR PRINT" TO mnote
        @ 21,20 GET mnote
        CLEAR GETS
        SELECT PRIMARY
        USE schedule INDEX schedule
        FIND '&mkey2'
        STORE p.sno TO msno
        SELECT secondary
        USE pdf INDEX pdf
        STORE " WAIT...PRINTING REPORT " TO mnote
        @ 21,20 GET mnote
        CLEAR GETS
        SET FORMAT TO PRINT
        DO WHILE (.NOT.EOF).AND.(p.cno=mcno).AND.(p.gno=mgno)
DO WHILE (.NOT.EOF).AND.(p.cno=mcno).AND.(p.gno=mgno)
    @ 2,30 SAY mcname
    @ 4,5 SAY "Schedule Numbers For Project Reporting Group:"
    @ 4,51 SAY mgname
    @ 6,5 SAY " Sch. No. Battalion           Title           Location"
    @ 7,5 SAY " =====
STORE 9 TO row
    DO WHILE (.NOT.EOF).AND.(row<62).AND.(p.gno=mgno).AND.(p.cno=mcno)
        SELECT SECOND
        FIND '&msno'
        @ row,6 SAY s.sno
        @ row,18 SAY s.bn
        @ row,28 SAY s.title
        @ row,54 SAY s.loc
        STORE row+2 TO row
        SELECT PRIMARY

```

```

        SKIP +1
        STORE p.sno TO msno
    ENDDO
    EJECT
    ENDDO WHILE
    SELECT PRIMARY
    USE groups INDEX groups
    FIND '&mkey2'
    SKIP +1
    IF EOF.OR.(p.cno<>mcno)
        LOOP
    ENDIF EOF.OR.(p.cno<>mcno)
    STORE p.gno TO mgno
    STORE p.gname TO mgname
    STORE mkey+str(mgno,2,0) TO mkey2
    SELECT PRIMARY
    USE schedule INDEX schedule
    FIND '&mkey2'
    IF EOF.OR.(p.cno=mcno)
        LOOP
    ENDIF EOF.OR.(p.cno=mcno)
    STORE p.sno TO msno
    SELECT SECOND
    ENDDO WHILE (.NOT.EOF).AND.(p.cno=mcno)
    EJECT
    SET FORMAT TO SCREEN
    USE clusters INDEX clusters
    @ 21,18 SAY
"
        STORE 'E' TO cmd
    ENDIF EOF
    ENDIF #=0
    ENDIF mcno>0.AND.mcno<9
    ENDIF cmd='P'
    ENDIF !(cmd)= 'E' .OR. !(cmd)= 'D'
    ENDDO

*      * quit with option to backup
IF !(cmd)= 'Q'
    STORE 'Y' TO mbak
    ERASE
    @ 13,0 SAY 'Do you want to backup Project Reporting Groups DataBase?' ;
    GET mbak PICTURE '!'
    @ 14,0 SAY '( You SHOULD if any proj. reporting group has been modified. )'
    READ
    IF !(mbak)= 'Y'
    ERASE
    ?
    ?
    ? 'WAIT.. COPYING PROJECT REPORTING GROUPS DATABASE TO B:'
    ?
    ?

```

```
?  
?  
SELECT SECONDARY  
USE  
SELECT PRIMARY  
USE  
USE clusters  
COPY STRUCTURE TO b:clusters  
USE b:clusters  
INDEX ON STR(cno,1,0) TO b:clusters  
SET INDEX TO b:clusters  
APPEND FROM a:clusters  
USE groups  
COPY STRUCTURE TO b:groups  
USE b:groups  
INDEX ON STR(cno,1,0)+STR(gno,2,0) TO b:groups  
SET INDEX TO b:groups  
APPEND FROM a:groups  
USE schedule  
COPY STRUCTURE TO b:schedule  
USE b:schedule  
INDEX ON STR(cno,1,0)+STR(gno,2,0)+STR(xno,2,0) TO b:schedule  
SET INDEX TO b:schedule  
APPEND FROM a:schedule  
ERASE  
RETURN  
ENDIF !(mbak)= 'Y'  
ENDIF !(cmd)= 'Q'  
ENDDO WHILE  
ERASE  
RETURN  
*  
*      * END CLUSTERS.CMD  
*
```



```

*****
*
*
*           A - C - M - S  Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: COSTRPT.CMD
*
*   DESCRIPTION: Generates a report giving allocated versus expended
*                funds by task. The report is generated by
*                clusters and will be subtotaled by group.
*
*   CALLS: None
*
*****
ERASE
SET TALK OFF
SET COLON OFF
SET DELETE ON
*       * get printer/console control codes
RESTORE FROM install ADDITIVE
*       * set up default memory variables
STORE 0 TO mcno
STORE 0 TO mgno
STORE "Y" TO ALL
*
USE misc
*       * get last processing date
STORE date TO mdate
*       * present clusters for user selection
@ 1,0 SAY "           DETAILED CONSTRUCTION COST REPORT"
@ 3,6 SAY "For period ending: " GET mdate PICTURE "999999"
CLEAR GETS
@ 5,0 SAY "Do you want to print out ALL the group reports for ALL of the "
@ 6,0 SAY "following clusters: (y/n) " GET ALL PICTURE "!"
*       * display clusters for user selection
USE clusters INDEX clusters
GOTO TOP
DO WHILE .NOT.EOF
    @ cno+7,2 SAY cno
    @ cno+7,3 SAY '>'
    @ cno+7,5 SAY cname
    SKIP
ENDDO WHILE .NOT.EOF
READ
CLEAR GETS

IF !(ALL)<> 'Y'
    @ cno+9,7 SAY "which cluster? " GET mcno PICTURE "9"
    @ cno+10,7 SAY "    0=EXIT"

```

```

READ
CLEAR GETS
IF mcno=0
    RETURN
ENDIF mcno=0
STORE str(mcno,1,0) TO mkey
FIND "&mkey"
STORE cname TO mcna
USE groups INDEX groups
FIND "&mkey"
IF #=0
    ? "                NO Groups in Cluster"
    ? "                Returning to Menu"
    STORE 1 TO count
    DO WHILE count<150
        STORE count+1 TO count
    ENDDO WHILE count<150
    RETURN
ENDIF #=0
USE schedule INDEX schedule
COPY TO tsno FIELD cno,gno,sno FOR cno=mcno
ELSE
    USE schedule INDEX schedule
    COPY TO tsno FIELD cno,gno,sno
ENDIF !(ALL)<> 'Y'
@ 17,0
? ' Set Printer to Top Of Form'
? ' Press RETURN when ready'
WAIT
@ 16,0 SAY '
@ 17,0 SAY '
@ 18,0 SAY '
@ 19,0 SAY '
@ 23,30 SAY rv+'PROCESSING'+rvoff

*      * routine to convert mmddyy to military date: dd MMM yy
STORE 'JANFEBMARAPR MAYJUNJUL AUGSEP OCTNOVDEC' TO year
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mdate,5,2) TO mil
USE tsno
GOTO TOP
STORE sno TO msno
*      * routine to print report
SET FORMAT TO PRINT
SET MARGIN TO 0
*      * set print to 12 pitch
@ 0,0 SAY pl2
DO WHILE .NOT.EOF
    STORE str(cno,1,0)+str(gno,2,0) TO mkey
    *      * variables mca? are for allocated funds
    STORE 0 TO mac1
    STORE 0 TO mac2

```

```

STORE 0 TO mac3
STORE 0 TO mac4
STORE 0 TO mac5
*   * variables mec? are for expended funds
STORE 0 TO mec1
STORE 0 TO mec2
STORE 0 TO mec3
STORE 0 TO mec4
STORE 0 TO mec5
SELECT SECOND
USE groups INDEX groups
FIND "&mkey"
STORE gname TO mlgname
@ 1,28 SAY "DETAILED CONSTRUCTION COST REPORT"
@ 3, 1 SAY ep+mlgname+epoff
@ 3,80 SAY "AS OF"
@ 3,86 SAY ep+mil+epoff
@ 4,33 SAY "Allocated/Expended Funds"
@ 6,1 SAY "Sch. No. US TDY      US EQUIP      CSG TDY      CGS
EQUIP      CSG LABOR      TOTAL"
@ 7,1 SAY "=====
=====
=====
SELECT SECONDARY
USE ps INDEX ps
STORE 9 TO row
SELECT PRIMARY
STORE cno TO mcno
STORE gno TO mgno

DO WHILE p.gno=mgno .AND. p.cno=mcno .AND. (.NOT.EOF)
  IF row>=63
    EJECT
    @ 1,29 SAY "DETAILED CONSTRUCTION COST REPORT"
    @ 3, 0 SAY ep+mlgname+epoff
    @ 3,75 SAY "AS OF"
    @ 3,81 SAY ep+mil+epoff
    @ 4,33 SAY "Allocated/Expended Funds"
    @ 6,1 SAY "Sch. No. US TDY      US EQUIP      CSG TDY      CGS
EQUIP      CSG LABOR      TOTAL"
    @ 7,1 SAY "=====
=====
=====
    STORE 9 TO row
  ENDIF row>=63
  SELECT SECONDARY
  FIND '&msno'
  @ row,1 SAY s.sno
  @ row,10 SAY s.ac1 USING '9,999,999.99'
  @ row,24 SAY s.ac2 USING '9,999,999.99'
  @ row,38 SAY s.ac3 USING '9,999,999.99'
  @ row,52 SAY s.ac4 USING '9,999,999.99'
  @ row,66 SAY s.ac5 USING '9,999,999.99'
  @ row,80 SAY s.ac1+s.ac2+s.ac3+s.ac4+s.ac5 USING '99,999,999.99'

```

```

STORE s.ac1+mac1 TO mac1
STORE s.ac2+mac2 TO mac2
STORE s.ac3+mac3 TO mac3
STORE s.ac4+mac4 TO mac4
STORE s.ac5+mac5 TO mac5
STORE row+1 TO row
@ row,10 SAY s.ec1 USING '9,999,999.99'
@ row,24 SAY s.ec2 USING '9,999,999.99'
@ row,38 SAY s.ec3 USING '9,999,999.99'
@ row,52 SAY s.ec4 USING '9,999,999.99'
@ row,66 SAY s.ec5 USING '9,999,999.99'
@ row,80 SAY s.ec1+s.ec2+s.ec3+s.ec4+s.ec5 USING '99,999,999.99'
STORE s.ec1+mec1 TO mec1
STORE s.ec2+mec2 TO mec2
STORE s.ec3+mec3 TO mec3
STORE s.ec4+mec4 TO mec4
STORE s.ec5+mec5 TO mec5
STORE row+2 TO row
SELECT PRIMARY
SKIP +1
STORE p.sno TO msno

```

```
ENDDDO WHILE gno=mgno .AND. cno=mcno .AND. (.NOT.EOF)
```

```
@ row,1 SAY "=====
```

```
STORE row+1 TO row
@ row,1 SAY 'TOTAL'
@ row,10 SAY mac1 USING '9,999,999.99'
@ row,24 SAY mac2 USING '9,999,999.99'
@ row,38 SAY mac3 USING '9,999,999.99'
@ row,52 SAY mac4 USING '9,999,999.99'
@ row,66 SAY mac5 USING '9,999,999.99'
@ row,80 SAY mac1+mac2+mac3+mac4+mac5 USING '99,999,999.99'
STORE row+1 TO row
@ row,10 SAY mec1 USING '9,999,999.99'
@ row,24 SAY mec2 USING '9,999,999.99'
@ row,38 SAY mec3 USING '9,999,999.99'
@ row,52 SAY mec4 USING '9,999,999.99'
@ row,66 SAY mec5 USING '9,999,999.99'
@ row,80 SAY mec1+mec2+mec3+mec4+mec5 USING '99,999,999.99'
```

EJECT

ENDDO WHILE .NOT.EOF

```
*      * set printer back to 10 pitch
```

@ 0,0 SAY p10

SET FORMAT TO SCREEN

USE

DELETE FILE tsno

ERASE

RETURN

✿

* * END COSTRPT.CMD

*
* A - C - M - S Ver. 84.0
*
* USA-CERL
*
* PROGRAM: EDEQ.CMD
*
* DESCRIPTION: This is the data entry routine for the equipment cost
* data base EQCOST.CMD. Calls EDEQA.CMD to enter
* attachments. Inherits memory variable meno (item number)
* and cursor.
*
* CALLS: called from EQCOST.CMD and calls EDEQA.CMD
*

ERASE
STORE " " TO mtype
* * types of equipment are: U for US,L for local purchase
* * S for special purchase
DO WHILE !(mtype)<> "U" .AND.!(mtype)<> "L" .AND.!(mtype)<> "S"
@ 1,19 SAY "HOURLY RATES OF EQUIPMENT COSTS"
@ 2, 0 SAY "ITEM NO:"
@ 2, 9 SAY eno
@ 2,13 SAY "."
@ 2,14 SAY atchno
IF !(type)<> "U" .AND.!(type)<> "L" .AND.!(type)<> "S"
@ 3,33 SAY "Illegal type->"
ENDIF !(type)<> "U" .AND.!(type)<> "L" .AND.!(
@ 3,49 SAY "TYPE"
@ 3,54 GET type
@ 3,59 SAY "(U,L, or S)"
@ 4, 0 SAY "NOMEMCLATURE :"
@ 4,14 GET despl
@ 4,44 SAY ": U - US STANDARD EQUIP"
@ 5,13 SAY ":"
@ 5,14 GET desp2
@ 5,44 SAY ": L - LOCAL & COMMERCIAL"
@ 6,13 SAY ":"
@ 6,14 GET desp3
@ 6,29 SAY ": S - EDU SPECIAL PURCHASED"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field;
; CTR-D: next character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"
READ
CLEAR GETS
REPLACE type WITH !(type)
STORE type TO mtype
ENDDO WHILE !(mtype)<> "U" .AND.!(mtype)<> "L" .AND.!(mtype)<> "S"

```

STORE 1 TO x
@ 8, 0 SAY "FSN :"
@ 8, 5 GET a
@ 8, 9 SAY "-"
@ 8,10 GET b
@ 8,12 SAY "-"
@ 8,13 GET c
@ 8,16 SAY "-"
@ 8,17 GET d
@ 8,21 SAY ":"
*      * skips leading blanks to left-adjust the equip
*      * description so that they
*      * can be alphabetized correctly.
DO WHILE $(despl,x,1)= " " .AND.x<=29
  STORE x+1 TO x
ENDDO WHILE $(despl,x,1)= " " .AND.x<=29
REPLACE displ WITH $(despl,x,30)
@ 10, 0 SAY "ACQUISITION COST :"
@ 10,18 GET acost
@ 10,25 SAY ".00:      Not on AMDF?"
@ 10,47 GET f
@ 10,49 SAY "(type True or False)"
READ
CLEAR GETS
IF !(f)= 'T'
  @ 10,45
ELSE
  @ 10,33
ENDIF !(f)= 'T'
CLEAR GETS
@ 12, 0 SAY "DEPRECIATION
@ 13, 0 SAY "COST (unfunded)   REPORTABLE? (y/n)"
@ 13,35 GET r
@ 13,38 SAY "COST (funded)"
READ
CLEAR GETS
IF !(r)= 'N'
  @ 13,18 SAY "NOT reportable      "
  @ 13,54 SAY "NOT reportable"
ELSE
  @ 13,18 SAY ": .00:      "
  @ 13,54 SAY ": .00:"
  @ 13,19 GET dcost
  @ 13,55 GET omcost
  READ
ENDIF !(r)= 'N'
CLEAR GETS
STORE 'N' TO mok
STORE 'A' TO m
*      * case=2 from EQCOST.CMD is change equipment
*      * so this option not needed
IF mcmd<>'2'

```

```

@ 21,8 SAY "Want to add Attachments, or Individual components?" ;
GET mok PICTURE '!'
READ
@ 21,0
IF mok<>'Y'
  REPLACE n WITH 'N'
ELSE
  DO WHILE (!(m)<> 'A') .AND.(!(m)<> 'I')
    @ 19,60 SAY "(type A, or I, ): " GET m PICTURE '!'
    READ
    STORE 'Y' TO mok
  ENDDO WHILE
  @ 19,0
  REPLACE n WITH m
  STORE 0 TO matchno
  STORE str(eno,4,0) TO ceno
  FIND "&ceno"
  *      * determine the next attachment number available
  DO WHILE .NOT.EOF.AND.eno=memo
    IF atchno>matchno
      STORE atchno TO matchno
    ENDIF atchno>matchno
    SKIP 1
  ENDDO WHILE .NOT.EOF.AND.eno=memo
  STORE matchno+1 TO matchno
  DO WHILE !(mmore)= 'Y'
    STORE ceno+str(matchno,2,0) TO mact
    APPEND BLANK
    REPLACE eno WITH memo, atchno WITH matchno, type WITH mtype
    REPLACE r WITH 'Y' , n WITH m, f WITH 'F'
    CLEAR GETS
    *      * add attachments
    *****
    DO edeqa
    *****
    *      * increment attachment number
    STORE matchno+1 TO matchno
  ENDDO WHILE !(mmore)= 'Y'
ENDIF
*      * if user is specifying equipment number (eno)
*      * then go back to main EQCOST.CMD
IF !(spec)<>'Y'
  @ 21,8 SAY " Continue adding NEW equipment? (y/n)" GET mmore PICTURE '!'
  READ
  CLEAR GETS
  @ 21,0
  CLEAR GETS
  RETURN
ENDIF
ENDIF
RETURN
*
```

EDEQ.CMD

*
* * END EDEQ.CMD
*

*

*

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*

PROGRAM: EDEQA.CMD

*

*

DESCRIPTION: Lets user add equipment information about
attachments or individual components. Displays
parent equipment data on upper part of screen
for user's benefit.

*

*

CALLS: none; called by EQCOST.CMD and EDEQ.CMD

*

ERASE

IF !(n)<>'I'

* * default is 'attachments'

STORE "---- ATTACHMENTS -----" TO mname

ELSE

STORE "--- INDIVIDUAL COMPONENTS -" TO mname

ENDIF

* find parent equipment for this attachment

FIND '&ceno'

@ 2, 0 SAY "ITEM NO:"

@ 2, 9 SAY eno

@ 2,13 SAY "."

@ 2,14 SAY atchno

@ 4, 0 SAY "NOMENCLATURE :"

@ 4,14 SAY despl

@ 4,44 SAY ": TYPE:"

@ 4,56 SAY type

@ 5,13 SAY ":"

@ 5,14 SAY desp2

@ 5,44 SAY ":"

@ 6,13 SAY ":"

@ 6,14 SAY desp3

@ 6,29 SAY ":"

@ 8, 0 SAY "-----&mname-----"

* find the blank record already created for this attachment

FIND '&mact'

@ 10, 0 SAY "ITEM NO:"

@ 10, 9 SAY eno

@ 10,13 SAY "."

@ 10,14 SAY atchno

@ 12, 0 SAY "NOMENCLATURE :"

@ 12,14 GET despl

@ 12,44 SAY ": TYPE:"

@ 12,56 SAY type

@ 13,13 SAY ":"

```

@ 13,14 GET desp2
@ 13,44 SAY ":"
@ 14,13 SAY ":"
@ 14,14 GET desp3
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field;
        ; CTR-D: next character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"
READ
@ 14,29 SAY ":"
CLEAR GETS
@ 14,50 SAY "FSN :"
@ 14,55 GET A
@ 14,59 SAY "-"
@ 14,60 GET B
@ 14,62 SAY "-"
@ 14,63 GET C
@ 14,67 SAY "-"
@ 14,68 GET D
@ 14,72 SAY ":"
*      * skip any leading blanks of the equipment description
*      * so we can alphabetize
STORE 1 TO x
DO WHILE S(despl,x,1)=' '.AND.x<=29
    STORE x+1 TO x
ENDDO
REPLACE despl WITH $(despl,x,30)
@ 16, 0 SAY "ACQUISITION COST :"
@ 16,18 GET ACOST
@ 16,25 SAY ".00:      Not on AMDF?"
@ 16,47 GET f
@ 16,49 SAY "(type True or False)"
READ
IF !(f)='T'
    @ 16,45
ELSE
    @ 16,33
ENDIF
CLEAR GETS
@ 18, 0 SAY "DEPRECIATION
@ 19, 0 SAY "COST (unfunded)  REPORTABLE? (y/n)" OPERATION & MAINTEN."
@ 19,35 GET r
@ 19,38 SAY "COST (funded)"
READ
CLEAR GETS
IF !(r)='N'
    @ 19,18 say "NOT reportable      "
    @ 19,54 say "NOT reportable"
ELSE
    @ 19,18 say ": .00:      "
    @ 19,54 say ": .00:"
    @ 19,19 get DCOST
    @ 19,55 get OMCOST

```

```
READ
ENDIF
CLEAR GETS
*      * case=2 from EQCOST.CMD for change equipment
*      * so skip this part of program
IF mcmd<>'2'
  @ 21,0
  @ 21, 0 SAY "Continue adding attachments or individule components? (y/n)";
  GET mmore PICTURE '!'
  READ
  CLEAR GETS
ENDIF
RETURN
*
*      * END EDEQA.CMD
*
```

*
*
*
*
*
*
*
*
*
*
*
*
*
*

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PROGRAM: EQAUDIT.CMD

DESCRIPTION: Generates weekly equipment cost for task by item.
Lists description, item number, \$/hr, hours used, cost
and total cost. The data base EQ.DBF stores old weekly
equipment data. EQ.DBF is updated by BACKUP.CMD.

CALLS: None

ERASE

SET TALK OFF

SET COLON OFF

SET DELETE ON

SELECT SECONDARY

USE eq INDEX eq

* * get printer/console control codes

RESTORE FROM install ADDITIVE

* * abbreviations for months

STORE 'JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC' TO year

STORE 'A' TO stop

DO WHILE stop ='A'

STORE ' ' TO msno

@ 1,10 SAY " GRAF84 EQUIPMENT COST SUMMARY REPORT"

@ 6,10 SAY " Enter Schedule Number: " get msno PICTURE '999999'

@ 7,10 SAY " or RETURN to EXIT"

READ

CLEAR GETS

IF msno=' '

STORE 'B' TO stop

LOOP

ENDIF

FIND '&msno'

IF #=0

@ 7,0

?? "

NO EQUIPMENT REPORTED"

LOOP

ENDIF

* * get earliest date

STORE week TO mweek1

DO WHILE (sno=msno).and.(.not.eof)

SKIP +1

ENDDO

SKIP-1

```

*      * get last date
STORE week TO mweek2
@ 9,10 SAY '          FROM: ' GET mweek1 PICTURE '999999'
@ 10,10 SAY '          TO: ' GET mweek2 PICTURE '999999'
READ
CLEAR GETS
@ 15,30 SAY rv+ 'PROCESSING' +rvoff
STORE mweek1 TO mdate
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mdate,5,2) TO mill
STORE mweek2 TO mdate
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mdate,5,2) TO mil

SELECT PRIMARY
*      * get report header
USE pdf INDEX pdf
FIND "&msno"
*      * go through all records for periods specified
*      * printing equipment use data
SET FORMAT TO PRINT
STORE 12 TO row
@ 1,4 SAY "GRAF84 Summary Equipment Cost Report From:&mill To:&mil"
@ 3, 6 SAY "Schedule No. :"
@ 3,20 SAY sno
@ 3,43 SAY "Title      :"
@ 3,54 SAY title
@ 4, 6 SAY "Battalion   :"
@ 4,20 SAY bn
@ 4,43 SAY "Location  :"
@ 4,54 SAY loc
@ 6,0 SAY
'*****
,
@ 8,0 SAY '      DESCRIPTION          ITEM NO.    $/HOUR
HOURS      COST
@ 10,0 SAY '-----
-----
SELECT PRIMARY
USE eqcost INDEX eqcost
GOTO TOP
SELECT SECOND
FIND "&msno&mweek1"
IF #=0
    @ row,20 SAY "NO EQUIPMENT REPORTED FOR THIS TASK"
    EJECT
    GO BOTTOM
    SKIP +1
    LOOP
ENDIF #=0
STORE 0 TO mtotal
DO WHILE (sno=msno).AND.(.NOT.EOF).AND.(week<=mweek2)

```

```

STORE 0.0 TO mitem
STORE 0.0 TO msub
STORE week TO mdate
STORE msno+week TO msnoweek
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mdate,5,2) TO
mil
DO WHILE (sno+week=msnoweek).AND.(.NOT.EOF).AND.#<>0
  STORE "1" TO no
  DO WHILE no<= "4"
    IF (!(s.type&no)= "0").OR.(p.eno=0).OR.(s.eno&no=0)
      STORE str(&no+1,1,0) TO no
      LOOP
    ENDIF s.type&no= "0" .OR.(p.eno=0)
    STORE str(s.eno&no,4,0)+str(s.atchno&no,2,0) TO mkey
    SELECT PRIMARY
    FIND '&mkey'
    IF #=0
      STORE str(&no+1,1,0) TO no
      LOOP
    ENDIF s.eno&no=0
    STORE p.omcost*s.hr&no TO mitem
    @ row,2 SAY p.despl
    IF s.atchno&no=0
      @ row,35 SAY str(s.eno&no,4,0)+'.0'
    ELSE
      @ row,35 SAY s.eno&no+(s.atchno&no/10.0) USING '9999.99'
    ENDIF
    @ row,45 SAY p.omcost USING '$999.99'
    @ row,57 SAY s.hr&no
    @ row,65 SAY mitem USING '$9999999.99'
    STORE row+2 TO row
    STORE mitem+msub TO msub
    STORE str(&no+1,1,0) TO no
  ENDDO WHILE no<= "4"
  SELECT SECOND
  SKIP
  ENDDO WHILE (sno+week=msnoweek).AND.(.NOT.EOF)
  @ row,0 SAY '-----'
  STORE row+2 TO row
  @ row,31 SAY 'WEEKLY SUBTOTAL FOR '+'&mil'
  @ row,63 say msub USING '$99999999.99'
  STORE row+2 TO row
  @ row,0 SAY '-----'
  STORE row+2 TO row
  STORE mttotal+msub TO mttotal
  ENDDO
  STORE row+1 to row
  @ row,0 SAY
  '=====

```

EQAUDIT.CMD

```
,
@ row+2,15 SAY '      TOTAL '+'&mill'+' TROUGH '+'&mil'
@ row+2,54 SAY mtotal USING '$999999999.99'
EJECT
SET FORMAT TO SCREEN
ERASE
ENDDO
ERASE
RETURN
*
*      * END EQAUDIT.CMD
*
```

*

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PROGRAM: EQCOST.CMD

*

DESCRIPTION: Presents main menu for equipment cost data base.

*

Gives user options to enter new equipment, change,
delete, or print listing of all equipment. The program
will assign a unique number 'eno' to each new equipment
item, but user may specify. Items may have attachments.
Primary use of this data is for calculating task
equipment use charges.

*

*

CALLS: EDEQ.CMD, EDEQA.CMD, and EQRPT.CMD

*

SET COLON OFF

SET TALK OFF

SET DELETE ON

STORE '1' TO mcmd

DO WHILE mcmd<> '0'

ERASE

STORE 'Y' TO mmore

@ 1, 8 SAY

"*****"

@ 2, 8 SAY "*"

"

@ 3, 8 SAY "*" EQUIPMENT COST DATABASE MENU

"

@ 4, 8 SAY "*"

"

@ 5, 8 SAY

"*****"

@ 6, 8 SAY "*"

"

@ 7, 8 SAY "*"

"

@ 8, 8 SAY "*" <1> ADD NEW EQUIPMENT

"

@ 9, 8 SAY "*" <2> CHANGE EQUIPMENT COST DATA

"

@ 10, 8 SAY "*" <2> CHANGE EQUIPMENT COST DATA

"

@ 11, 8 SAY "*" <2> CHANGE EQUIPMENT COST DATA

"


```

* @ 12, 8 SAY "*" <3> DELETE EQUIPMENT OR ATTACHMENTS
*
* @ 13, 8 SAY "*"
*
* @ 14, 8 SAY "*" <4> PRINT EQUIPMENT COST CATALOG
*
* @ 15, 8 SAY "*"
*
* @ 16, 8 SAY "*" <0> EXIT
*
* @ 17, 8 SAY "*"
*
* @ 18, 8 SAY "*"
*
* @ 19, 8 SAY
*****"
* @ 21,8 SAY "OPTION? " GET mcmd
* READ
* CLEAR GETS
*
* SELECT PRIMARY
* * use eqcost
* * index is str(eno,4,0)+str(atchno,2,0) to eqcost.ndx
* * eqcost.dbf stores all the equipment and attachments
* USE eqcost INDEX eqcost
*
* DO CASE
*
* CASE mcmd= '1'
* * * add new equipment
* STORE 'N' TO spec
* @ 21,0
* @ 21,8 SAY 'Do you want to specify ITEM NO. ? (y/n)' GET spec;
* PICTURE '!'
* READ
* IF !(spec)='Y'
* STORE 0 TO meno
* STORE 0 TO matchno
* @ 21,0
* @ 21,8 SAY "Enter the ITEM NO. : . : "
* @ 21,28 GET meno PICTURE "9999"
* @ 21,33 GET matchno PICTURE "99"
* READ
* CLEAR GETS
* STORE str(meno,4,0)+str(matchno,2,0) TO mkey
* FIND '&mkey'
* IF #<>0
* @ 21,0
* @ 21,8 SAY "Item already in data base-- Press RETURN"
* SET CONSOLE OFF
* WAIT
* SET CONSOLE ON

```

```

@ 21,0
LOOP
ELSE
  IF matchno=0
    APPEND BLANK
    REPLACE eno WITH meno,atchno WITH 0
    REPLACE r WITH 'y' , f WITH 'f' ,type WITH 'U' ,n WITH 'N'
    *****
    DO edeq
    *****
  ELSE
    STORE STR(meno,4,0)+' 0' TO mkey2
    FIND '&mkey2'
    IF #=0
      @ 21,0
      @ 21,8 SAY 'NO ITEM to add attachments to!--Press RETURN'
      SET CONSOLE OFF
      WAIT
      SET CONSOLE ON
      LOOP
    ENDIF
    STORE type TO mtype
    APPEND BLANK
    REPLACE eno WITH meno,atchno WITH matchno,type WITH mtype
    REPLACE r WITH 'Y',n WITH 'A',f WITH 'F'
    STORE STR(meno,4,0) TO ceno
    STORE mkey TO mact
    FIND '&mact'
    *      * add attachments
    *****
    DO edeqa
    *****
  ENDIF
ENDIF
ENDIF
ENDIF

DO WHILE (!(mmore)='Y').AND.(!(spec)<>'Y')
  GO BOTTOM
  *      * new item number is meno
  STORE eno+1 TO meno
  APPEND BLANK
  REPLACE eno WITH meno,atchno WITH 0
  REPLACE r WITH 'y' , f WITH 'f' ,type WITH 'U' ,n WITH 'N'
  *****
  DO edeq
  *****
ENDDO WHILE !(mmore)= 'Y'

CASE mcmd= '2'
  *      * change equipment
  STORE 0 TO meno

```

```

STORE 0 TO matchno
@ 21,0
@ 21,8 SAY "Enter the ITEM NO. :      .  : "
@ 21,28 GET meno PICTURE "9999"
@ 21,33 GET matchno PICTURE "99"
READ
CLEAR GETS
STORE str(meno,4,0)+str(matchno,2,0) TO mkey
FIND '&mkey'
IF #=0
  @ 21,0
  @ 21,8 SAY "Item NOT Found -- Press RETURN"
  SET CONSOLE OFF
  WAIT
  SET CONSOLE ON
  @ 21,0
ELSE
  IF matchno=0
    *****
    DO edeq
    *****
  ELSE
    STORE STR(meno,4,0) TO ceno
    STORE mkey TO mact
    FIND '&mact'
    *****
    DO edeqa
    *****
  ENDIF
ENDIF

CASE mcmd= '3'
*      * delete equipment
STORE 0 TO meno
STORE 0 TO matchno
@ 21,0 SAY "Enter the item no. :      .  :  "
@ 21,20 GET meno PICTURE "9999"
@ 21,25 GET matchno PICTURE "99"
READ
CLEAR GETS
STORE str(meno,4,0)+str(matchno,2,0) TO mkey
FIND '&mkey'
IF #=0
  @ 21,0
  @ 21,8 SAY "Item NOT Found -- Press RETURN"
  SET CONSOLE OFF
  WAIT
  SET CONSOLE ON
  @ 21,0
ELSE
  IF matchno=0
    DELETE ALL FOR eno=meno

```

```

        ELSE
        DELETE
        ENDIF
    ENDIF

CASE mcmd= '4'
    *      * print equipment listing
    *****
    DO eqrpt
    *****

CASE mcmd= '0'
    *      * exit program with option to backup to B drive
    STORE 'Y' TO ok
    @ 21,8 SAY "Do you want to backup the equipment database to B: ?
(y/n)";
    GET ok PICTURE '!'
    READ
    IF !(ok)= "Y"
    ERASE
    ?
    ?
    ?
    ? 'WAIT..COPYING EQUIPMENT COST DATA TO B:'
    ?
    ?
    ?
    ?
    SELECT PRIMARY
    USE
    USE eqcost
    COPY STRUCTURE TO b:eqcost
    USE b:eqcost
    INDEX ON STR(eno,4,0)+STR(atchno,2,0) TO b:eqcost
    SET INDEX TO b:eqcost
    APPEND FROM a:eqcost
    ERASE
    QUIT
    ENDIF !(ok)= "Y"
    ERASE
    RETURN

    OTHERWISE

ENDCASE

ENDDO WHILE mcmd<> '0'
*
*      * END EQCOST.CMD
*
```

*

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PROGRAM: EQRPT.CMD

*

*

DESCRIPTION: Routine to generate the Equipment Cost Catalog. Report is alphabetized on description and divided into three sections: US, Local Purchase, and EUD Special Equipment. Uses temporary index files EQCOST.ABC and AEQTEMP.ABC as alphabetical index. Also creates AEQTEMP.DBF as temporary data base for attachments. Temporary files are deleted on termination of report.

*

*

CALLS: Called From EQCOST.CMD

*

@ 21,0

STORE 'WAIT...PREPARING REPORT' TO mnote

@ 21,8 GET mnote

CLEAR GETS

* * clear primary use data base: eqcost

SELECT PRIMARY

USE

* * select as second

SELECT SECOND

USE eqcost

* * reindex it

INDEX ON str(eno,4,0)+str(atchno,2,0) TO eqcost

SET INDEX TO eqcost

* * create temporary data base of parent equipment

COPY TO teq FOR atchno=0

SELECT PRIMARY

USE teq

* * index on equipment type and in alphabetical order

INDEX ON !(type)+!(despl) TO teq

SET INDEX TO teq

@ 21,0

STORE 'WAIT...PRINTING REPORT' TO mnote

@ 21,8 GET mnote

CLEAR GETS

SET FORMAT TO PRINT

SET MARGIN TO 0

* * get printer/console control codes

RESTORE FROM install ADDITIVE

STORE 1 TO page

STORE 0 TO row

* * print report header

@ 0,3 SAY ep+dw+ "HOURLY RATES OF EQUIPMENT COSTS" +p12

```

@ 4,55 SAY "DEPRECIATION"
@ 4,70 SAY "OPERATION &"
@ 5,0 SAY "ITEM"
@ 5,13 SAY "NOMENCLATURE"
@ 5,40 SAY "ACQUISITION"
@ 5,55 SAY "COST"
@ 5,70 SAY "MAINTENANCE"
@ 6,0 SAY "NO."
@ 6,13 SAY "    & FSN"
@ 6,40 SAY "COST"
@ 6,55 SAY "(Unfunded)"
@ 6,70 SAY "COST (Funded)&epoff"

STORE 9 TO row
*      * find first special equipment
FIND S
*      * store its record number
STORE # TO eudmark
*      * find first US equipmnet
FIND U
*      * store record number
STORE # TO stop
STORE str(eno,4,0) TO meno
STORE eno TO meno2
STORE ' ' TO mnote
STORE 'T' TO mmore
DO WHILE mmore='T'
*      * print routine for each item
IF row>54
@ 58,41 SAY page
STORE page+1 TO page
EJECT
STORE 6 TO row
@ 0,20 SAY ep+mnote
@ 1,55 SAY "DEPRECIATION"
@ 1,70 SAY "OPERATION &"
@ 2,0 SAY "ITEM"
@ 2,13 SAY "NOMENCLATURE"
@ 2,40 SAY "ACQUISITION"
@ 2,55 SAY "COST"
@ 2,70 SAY "MAINTENANCE"
@ 3,0 SAY "NO."
@ 3,13 SAY "    & FSN"
@ 3,40 SAY "COST"
@ 3,55 SAY "(Unfunded)"
@ 3,70 SAY "COST (Funded)&epoff"

ENDIF row>54

IF atchno=0
@ row-1,0 SAY ep
@ row,0 SAY str(eno,3,0)+ ".0"

```

```

ELSE
  @ row,0 SAY str(eno,3,0)+ "."
  IF atchno>=10
    @ row,4 SAY atchno USING "99"
  ELSE
    @ row,4 SAY atchno USING "9"
  ENDIF atchno>=10
ENDIF atchno=0

@ row,7 SAY despl
@ row,40 SAY acost USING "$999,999.99"

IF !(r)= 'Y'
  @ row,58 SAY dcost USING "$99.99"
  @ row,72 SAY omcost USING "$99.99"
ELSE
  @ row,58 SAY "( NOT REPORTABLE )"
ENDIF
@ row,79 SAY epoff
@ row+1,7 SAY desp2
IF !(f)= 'T'
  @ row+1,40 SAY "(Not on AMDF)"
ENDIF !(f)= 'T'
STORE row+2 TO row
IF desp3<> " "
  @ row,7 SAY desp3
  STORE row+1 TO row
ENDIF desp3<> " "

IF a<> " " .AND.b<> " " .AND.c<> " " .AND.d<> " "
  @ row,7 SAY a+ '-' +b+ '-' +c+ '-' +d
  STORE row+1 TO row
ENDIF a<> " " .AND.b<> " " .AND.c<> " "
STORE row+1 TO row
STORE n TO m

*          * look for attachments
SELECT SECOND
FIND "&meno"
SKIP
IF atchno<>0
  STORE 1 TO title
  DO WHILE (meno2=eno).AND.(.NOT.EOF)
    IF (!(m)='A').AND.(title=1)
      @ row,5 SAY "ATTACHMENTS:"
      STORE 0 TO title
    ELSE
      IF (!(m)='I').AND.(title=1)
        @ row,5 SAY "INDIVIDULE COMPONENTS:"
        STORE 0 TO title
      ENDIF !(m)='I'
    ENDIF !(m)='A'
  
```

```

STORE row+2 TO row
IF row>54
  @ 58,41 SAY page
  STORE page+1 TO page
  EJECT
  STORE 6 TO row
  @ 0,20 SAY ep+mnote
  @ 1,55 SAY "DEPRECIATION"
  @ 1,70 SAY "OPERATION &"
  @ 2,0 SAY "ITEM"
  @ 2,13 SAY "NOMENCLATURE"
  @ 2,40 SAY "ACQUISITION"
  @ 2,55 SAY "COST"
  @ 2,70 SAY "MAINTENANCE"
  @ 3,0 SAY "NO."
  @ 3,13 SAY "    & FSN"
  @ 3,40 SAY "COST"
  @ 3,55 SAY "(Unfunded)"
  @ 3,70 SAY "COST (Funded)&epoff"
ENDIF row>50

IF atchno=0
  @ row-1,0 SAY ep
  @ row,0 SAY str(eno,3,0)+ ".0"
ELSE
  @ row,0 SAY str(eno,3,0)+ "."
  IF atchno>=10
    @ row,4 SAY atchno USING "99"
  ELSE
    @ row,4 SAY atchno USING "9"
  ENDIF atchno>=10
ENDIF atchno=0

@ row,7 SAY despl
@ row,40 SAY acost USING "$999,999.99"

IF !(r)= 'Y'
  @ row,58 SAY dcost USING "$99.99"
  @ row,72 SAY omcost USING "$99.99"
ELSE
  @ row,58 SAY "( NOT REPORTABLE )"
ENDIF

@ row,79 SAY epoff
@ row+1,7 SAY desp2
IF !(f)= 'T'
  @ row+1,40 SAY "(Not on AMDF)"
ENDIF !(f)= 'T'

STORE row+2 TO row
IF desp3<> "    "
  @ row,7 SAY desp3
  STORE row+1 TO row

```



```

ENDIF desp3<> "      "

IF a<> "      " .AND.b<> "      " .AND.c<> "      " .AND.d<> "      "
  @ row,7 SAY a+ '-' +b+ '-' +c+ '-' +d
  STORE row+1 TO row
ENDIF a<> "      " .AND.b<> "      " .AND.c<> "      "
STORE row+1 TO row
SKIP

ENDDO WHILE

ENDIF atchno<>0

SELECT PRIMARY

SKIP
IF EOF
  @ 58,40 SAY page
  STORE page+1 TO page
  EJECT
  STORE ep+ "LOCAL PURCHASED AND US COMMERCIAL EQUIPMENT" TO mnote
  STORE 6 TO row
  @ 0,20 SAY mnote
  @ 1,55 SAY "DEPRECIATION"
  @ 1,70 SAY "OPERATION &"
  @ 2,0 SAY "ITEM"
  @ 2,13 SAY "NOMENCLATURE"
  @ 2,40 SAY "ACQUISITION"
  @ 2,55 SAY "COST"
  @ 2,70 SAY "MAINTENANCE"
  @ 3,0 SAY "NO."
  @ 3,13 SAY "      & FSN"
  @ 3,40 SAY "COST"
  @ 3,55 SAY "(Unfunded)"
  @ 3,70 SAY "COST (Funded)&epoff"

  GOTO TOP
ENDIF EOF

IF #=eudmark
  @ 58,40 SAY page
  STORE page+1 TO page
  EJECT
  STORE ep+ "EUD SPECIAL PURCHASED EQUIPMENT" TO mnote
  STORE 6 TO row
  @ 0,20 SAY mnote
  @ 1,55 SAY "DEPRECIATION"
  @ 1,70 SAY "OPERATION &"
  @ 2,0 SAY "ITEM"
  @ 2,13 SAY "NOMENCLATURE"
  @ 2,40 SAY "ACQUISITION"
  @ 2,55 SAY "COST"

```

```
@ 2,70 SAY "MAINTENANCE"  
@ 3,0 SAY "NO."  
@ 3,13 SAY "    & FSN"  
@ 3,40 SAY "COST"  
@ 3,55 SAY "(Unfunded)"  
@ 3,70 SAY "COST (Funded)&epoff"
```

```
ENDIF #=eudmark
```

```
IF #=stop  
  @ 58,40 SAY page  
  EJECT  
  SET FORMAT TO SCREEN  
  STORE 'F' TO mmore  
  LOOP  
ENDIF
```

```
STORE eno TO meno2  
STORE str(eno,4,0) TO meno
```

```
ENDDO WHILE mmore
```

```
SELECT SECOND
```

```
USE
```

```
*      * deselect temporary  
*      * and delete
```

```
DELETE FILE teq
```

```
DELETE FILE teq.ndx
```

```
SELECT PRIMARY
```

```
@ 21,0
```

```
RETURN
```

```
*
```

```
*      * END EQRPT.CMD *** RETURN TO EQCOST.CMD
```

```
*
```

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f

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```

"|
|
@ 14, 2 SAY "| 10>                                11>
12>                                |"
@ 15, 2 SAY
"|
|
@ 16, 2 SAY
"|=====|
"
@ 17, 2 SAY
"|
|
@ 18, 2 SAY "|      E to edit/display/add a group      P to print schedule
no.'s      |"
@ 19, 2 SAY "|      D to delete a group                  Q to quit to cluster
menu      |"
@ 20, 2 SAY
"|
|
@ 21, 2 SAY "| OPTION ?"
@ 21,78 SAY "|
@ 22, 2 SAY "-----"
"
@ 1,50 GET mcname
  CLEAR GETS

  USE groups INDEX groups
  *   * mkey is cluster number
  FIND "&mkey"
  *   * loop to display group names on above spread sheet
  DO WHILE cno=mcno.AND.(.NOT.EOF).AND.#<>0
    IF gno = 7
      STORE 2 TO row
    ELSE
      IF gno > 9
        STORE 3 TO row
      ELSE
        STORE int(gno/4) TO row
      ENDIF gno > 9
    ENDIF gno = 7
    STORE gno-row*3 TO col
    @ row*3+5,25*(col-1)+8 SAY gname
    SKIP
  ENDDO WHILE cno=mcno.AND.(.NOT.EOF).AND.#<>0
  *   * set defaults
  STORE 1 TO mgno
  STORE "E" TO cmd
  STORE "Y" TO mnew
  *
  * main loop for add, edit and delet
  *

```

```

DO WHILE !(cmd)<> 'Q' .AND.!(cmd)<> 'B'

  @ 21, 13 GET cmd PICTURE "!"
  READ
  CLEAR GETS

  IF !(cmd)= 'E' .OR.!(cmd)= 'D'
    @ 21,18 SAY "which item no.? (1-12)"
    @ 21,41 GET mgno PICTURE "99"
    READ
    CLEAR GETS
    IF mgno > 0 .AND. mgno < 13
      STORE mkey+str(mgno,2,0) TO mkey
      FIND "&mkey"
      IF !(cmd)= 'E'
        IF #=0
          @ 21,48 SAY "adding new group? (y/n)"
          @ 21,73 GET mnew
          READ
          CLEAR GETS
          IF !(mnew)= 'Y'
            APPEND BLANK
            REPLACE gno WITH mgno, cno WITH mcno
            IF gno = 7
              STORE 2 TO row
            ELSE
              IF gno > 9
                STORE 3 TO row
              ELSE
                STORE int(gno/4) TO row
              ENDIF gno > 9
            ENDIF gno = 7
            STORE gno-row*3 TO col
            STORE "
                                Enter the group name.;
                                " TO mnotel
            @ 21,18 GET mnotel
            CLEAR GETS
            @ row*3+5,25*(col-1)+8 GET gname
            READ
            CLEAR GETS
            STORE gname TO mgname
            STORE "A" TO cmd
            *****
            DO schedule
            *****
            STORE "B" TO cmd
          ELSE
            @ 21,18 SAY
                                "
                                "
            ENDIF !(mnew) = 'Y'
          ELSE
            STORE gname TO mgname

```

```

        STORE "E" TO cmd
        *****
        DO schedule
        *****
        STORE "B" TO cmd
    ENDIF # = 0
ELSE
    IF #=0
        STORE "No such Group. " TO mnote
        @ 21,50 GET mnote
        CLEAR GETS
    ELSE
        @ 21,50 SAY "sure? (y/n)"
        @ 21,62 GET mnew
        READ
        CLEAR GETS
        IF !(mnew)= 'Y'
            IF gno = 7
                STORE 2 TO row
            ELSE
                IF gno > 9
                    STORE 3 TO row
                ELSE
                    STORE int(gno/4) TO row
                ENDIF gno > 9
            ENDIF gno = 7
            @ 21,18 SAY
            "

            STORE gno-row*3 TO col
            STORE " WAIT...PROCESSING " TO mnote4
            @ row*3+5,25*(col-1)+8 GET mnote4
            CLEAR GETS
            USE schedule INDEX schedule
            DELETE FOR cno=mcno.AND.gno=mgno
            PACK
            USE groups INDEX groups
            DELETE FOR cno=mcno.AND.gno=mgno
            PACK
            @ row*3+5,25*(col-1)+8 SAY "
        ELSE
            IF !(mnew)= 'N'
                @ 21,18 SAY
                "

                ENDIF !(mnew)= 'N'
            ENDIF !(mnew)= 'Y'
            STORE 'E' TO cmd
            STORE '1' TO gno
        ENDIF # = 0
        ENDIF mgno > 0 .AND. mgno < 13
        ENDIF !(mnew)= 'Y'
    ENDIF #=0

```

```

*          * print routine to list all schedule numbers in group
IF !(cmd)= 'P'
  @ 21,18 SAY "which item no.? (1-12)"
  @ 21,41 GET mgno PICTURE "99"
  READ
  CLEAR GETS
  IF mgno>0.AND.mgno<13
    STORE mkey+str(mgno,2,0) TO mkey
    FIND "&mkey"
    IF #=0
      STORE "Not a Project Reporting Group" TO mnote5
      @ 21,48 GET mnote5
      CLEAR GETS
    ELSE
      STORE gname TO mgname
      @ 21,18 SAY
      "
      STORE " WAIT...PREPARING REPORT FOR PRINT" TO mnote5
      @ 21,20 GET mnote5
      CLEAR GETS
      SELECT PRIMARY
      USE schedule INDEX schedule
      FIND '&mkey'
      IF EOF
        STORE " There are no Schedules Numbers in Group" TO mnote5
        @ 21,18 GET mnote5
        @ 21,40 GET mgname
        CLEAR GETS
      ELSE
        STORE p.sno TO msno
        SELECT SECOND
        USE pdf INDEX pdf
        @ 21,18 SAY
        "
        STORE " WAIT...PRINTING REPORT " TO mnote5
        @ 21,20 GET mnote5
        CLEAR GETS
        SET FORMAT TO PRINT
DO WHILE .NOT.EOF.AND.(p.cno=mcno).AND.(p.gno=mgno)
  @ 2,10 SAY "18th ENG BDE - Automated Construction Management System"
  @ 4,5 SAY "Schedule Numbers For Project Reporting Group:"
  @ 4,51 SAY mgname
  @ 6,5 SAY "Sch. No.  Battalion          Title                      Location"
  @ 7,5 SAY "=====  =====  =====  =====  =====  "
  STORE 9 TO mrow2
DO WHILE .NOT. EOF.AND.(mrow2<62).AND.(p.cno=mcno).AND.(p.gno=mgno)
  SELECT SECOND
  FIND '&msno'
  @ mrow2,6 SAY s.sno
  @ mrow2,18 SAY s.bn
  @ mrow2,28 SAY s.title
  @ mrow2,54 SAY s.loc

```

```

STORE mrow2+2 TO mrow2
SELECT PRIMARY
SKIP +1
STORE p.sno TO msno
ENDDO

```

```

      EJECT
      ENDDO WHILE .NOT.EOF.AND.(p.cno=mcno).AND.(p.g
      EJECT
      SET FORMAT TO SCREEN
      USE groups INDEX groups
      @ 21,18 SAY

```

"

"

```

      STORE 'E' TO cmd
      ENDIF EOF
      ENDIF #=0
      ENDIF mgno>0.AND.mgno<13
      ENDIF !(cmd)= 'P'

```

```

*           * reset mkey to cluster
STORE $(mkey,1,1) TO mkey

```

```

ENDDO WHILE !(cmd)<> 'Q' AND. !(cmd)<> 'B'

```

```

ENDDO WHILE !(cmd)<> 'Q'
USE
STORE 'B' TO cmd
ERASE
RETURN

```

*

```

*           * END GROUPS.CMD RETURN TO CLUSTERS.CMD

```

*

*

*

*

A - C - M - S Ver. 84.0

*

*

USA-CERL

*

*

PROGRAM: INSTALL.CMD

*

*

DESCRIPTION: Installation program for the ACMS system. This produces a memory variable file--INSTALL.MEM-- that contains printer and console control codes. The console control is optional and defaults to a space--ASCII decimal 32. The printer control codes are necessary for 80 column printers and because some ACMS reports require different pitches. The program also lets the user enter the title of the organization to appear in the menu program (ACMS.CMD).

*

*

CALLS: ACMS.CMD

*

SET TALK OFF

SET COLON OFF

*

* display system banner

?

?

?

?

?

?

?

?

?

?

?

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ACMS

```

?
?
? '
?      Version 84.0'
?
?
?
? '
?      AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM'
?
? '
?      US ARMY CORPS OF ENGINEERS'
?
? '
?      Construction Engineering Research Laboratory'
?
?
?
*      * wait
STORE 0 TO lmarktime
STORE 200 TO lmarch
DO WHILE lmarktime<lmarch
    STORE lmarktime+1 TO lmarktime
ENDDO
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
?
*      * start installation program here
?
? '
?      THIS IS THE A-C-M-S INSTALLATION PROGRAM.'
?
? 'YOU WILL BE ASKED TO SPECIFY THE CONTROL CODES REQUIRED BY YOUR PRINTER'
? 'AND CONSOLE. TO DETERMINE THE CONTROL SEQUENCES YOU WILL NEED TO REFER'
? 'TO YOUR SYSTEM MANUALS.'
?
?
?
? 'THE INSTALLATION PROGRAM WILL PROMPT YOU FOR THE COMMANDS. THE PROMPTS'
? 'WILL ASK YOU TO ENTER THE NUMBER OF REQUIRED CODE(S) AND THEN THE '

```

```

? '***DECIMAL*** VALUE OF THE ASCII CODE(S).'
```

?

?

```

? 'NOTE:THE CONSOLE INSTALLATION PART OF THIS PROGRAM IS OPTIONAL.'
```

?

```

? '    IF YOU DO NOT WANT TO USE ANY SPECIAL EFFECTS SUCH AS '
```

?

```

? '    REVERSE VIDEO OR REVERSE BLINK, THEN ANSWER NO TO THE'
```

?

```

? '    FIRST TWO QUESTIONS.  THE DEFAULT CODE 32 IS A SPACE AND'
```

?

```

? '    WILL HAVE NO EFFECT.'
```

?

?

```

? 'PRESS <RETURN> TO BEGIN..'
SET CONSOLE OFF
WAIT
SET CONSOLE ON
IF FILE('INSTALL.MEM')
    *      * get old control codes
    RESTORE FROM install ADDITIVE
ELSE
    *      * setup defaults to blank
    *      * start reverse video
    STORE ' ' TO rv
    *      * stop reverse video
    STORE ' ' TO rvoff
    *      * 10 pitch
    STORE ' ' TO pl0
    *      * 12 pitch
    STORE ' ' TO pl2
    *      * 17 pitch
    STORE ' ' TO pl7
    *      * start emphasized print
    STORE ' ' TO ep
    *      * stop emphasized print
    STORE ' ' TO epoff
    *      * start double wide
    STORE ' ' TO dw
    *      * organization title
    STORE ' ' TO orgname
    *      * bell
    STORE CHR(7) TO bell
ENDIF
*      * get length of strings
STORE LEN(pl0) TO lpl0
STORE LEN(pl2) TO lpl2
STORE LEN(pl7) TO lpl7
STORE LEN(ep) TO lep
STORE LEN(epoff) TO lepoff
STORE LEN(rv) TO lrv
STORE LEN(rvoff) TO lrvoff
STORE LEN(dw) TO ldw
ERASE
STORE 'N' TO lok
*      * loop until console codes are ok
```

```

DO WHILE lok<>'Y'
*
*-----get codes for reverse video on-----
*
STORE STR(lrv,1) TO lmo
? '          CONSOLE INSTALLATION - OPTIONAL'
@ 3,0 SAY 'CURRENT COMMAND FOR START REVERSE VIDEO (OR REVERSE BLINK)'
@ 4,0 SAY 'REQUIRES &lmo CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lrv
STORE $(rv,lno,1) TO lrv&lnumber
STORE RANK(lrv&lnumber) TO lcode
@ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
CLEAR GETS
STORE lno+1 TO lno
STORE STR(&lnumber+1,1) TO lnumber
STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE
'1'
READ
IF lchange='Y'
RELEASE ALL LIKE lrv?
STORE 0 TO lrv
STORE lrow+2 TO lrow
STORE '1' TO lnumber
STORE 1 TO lno
@ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lrv PICTURE '9'
READ
DO WHILE lno<=lrv
STORE lrow+1 TO lrow
STORE 0 TO lrv&lnumber
@ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lrv&lnumber PICTURE '99'
READ
STORE lno+1 TO lno
STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lrv1) TO rv
IF lrv>1
STORE 2 to lno
STORE '2' TO lnumber
STORE CHR(lrv1) TO rv
DO WHILE lno<=lrv
STORE rv+CHR(lrv&lnumber) TO rv
STORE lno+1 TO lno
STORE STR(&lnumber+1,1) TO lnumber
ENDDO
ENDIF

```

ENDIF
ERASE

*
*-----get codes for reverse video off-----
*

```

STORE STR(lrvoff,1) TO lmno
? '          CONSOLE INSTALLATION - OPTIONAL'
@ 3,0 SAY 'CURRENT COMMAND FOR STOP REVERSE VIDEO (OR REVERSE BLINK)'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lrwoff
  STORE $(rvoff,lno,1) TO lrvoff&lnumber
  STORE RANK(lrvoff&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE

```

'1'

```

READ
IF lchange='Y'
  RELEASE ALL LIKE lrvoff?
  STORE 0 TO lrvoff
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber
  STORE 1 TO lno
  @ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lrvoff PICTURE '9'
  READ
  DO WHILE lno<=lrwoff
    STORE lrow+1 TO lrow
    STORE 0 TO lrvoff&lnumber
    @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lrvoff&lnumber PICTURE '99'
    READ
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
  STORE CHR(lrvoff1) TO rvoff
  IF lrvoff>1
    STORE 2 TO lno
    STORE '2' TO lnumber
    DO WHILE lno<=lrwoff
      STORE rvoff+CHR(lrvoff&lnumber) TO rvoff
      STORE lno+1 TO lno
      STORE STR(&lnumber+1,1) TO lnumber
    ENDDO
  ENDIF

```

```

ENDIF
*
*-----test reverse video-----
*
ERASE
STORE 'N' TO ltest
? '          CONSOLE INSTALLATION - OPTIONAL'
@ 3,0 SAY 'DO YOU WANT TO TEST YOUR REVERSE VIDEO (REVERSE BLINK) COMAND?'
';
GET ltest PICTURE '!'
READ
IF ltest='Y'
    @ 10,18 SAY rv+'*****'+rvoff
    @ 12,19 SAY 'IS THIS WHAT YOU WANT? 'GET lok PICTURE '!'
    READ
ELSE
    STORE 'Y' TO lok
ENDIF
ERASE
ENDDO
*-----printer controls-----
*
STORE 'N' TO lok
*      * loop until printer codes are ok
DO WHILE lok<>'Y'
*-----10 characters per inch-----
*
ERASE
STORE STR(lp10,1) TO lmno
? '          PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR 10 CHARACTERS PER INCH'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lp10
    STORE $(p10,lno,1) TO lp10&lnumber
    STORE RANK(lp10&lnumber) TO lcode
    @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
    CLEAR GETS
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
    STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
    RELEASE ALL LIKE lp10?
    STORE 0 TO lp10
    STORE lrow+2 TO lrow

```

```

STORE '1' TO lnumber
STORE 1 TO lno
@ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lp10 PICTURE '9'
READ
DO WHILE lno<=lp10
  STORE lrow+1 TO lrow
  STORE 0 TO lp10&lnumber
  @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lp10&lnumber PICTURE '99'
  READ
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lp101) TO p10
IF lp10>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=lrvoff
    STORE p10+CHR(lp10&lnumber) TO p10
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF
*
*-----12 characters per inch-----
*
ERASE
STORE STR(lp12,1) TO lmno
? ' PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR 12 CHARACTERS PER INCH'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lp12
  STORE $(p12,lno,1) TO lp12&lnumber
  STORE RANK(lp12&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  RELEASE ALL LIKE lp12?
  STORE 0 TO lp12
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber

```

```

STORE 1 TO lno
@ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lpl2 PICTURE '9'
READ
DO WHILE lno<=lpl2
  STORE lrow+1 TO lrow
  STORE 0 TO lpl2&lnumber
  @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lpl2&lnumber PICTURE '99'
  READ
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lpl21) TO pl2
IF lpl2>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=lpl2
    STORE pl2+CHR(lpl2&lnumber) TO pl2
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF
*
*-----17 characters per inch-----
*
ERASE
STORE STR(lpl7,1) TO lmno
? ' PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR 17 CHARACTERS PER INCH'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lpl7
  STORE $(p17,lno,1) TO lpl7&lnumber
  STORE RANK(lpl7&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  RELEASE ALL LIKE lpl7?
  STORE 0 TO lpl7
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber
  STORE 1 TO lno

```



```

@ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lpl7 PICTURE '9'
READ
DO WHILE lno<=lpl7
  STORE lrow+1 TO lrow
  STORE 0 TO lpl7&lnumber
  @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lpl7&lnumber PICTURE '99'
  READ
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lpl7l) TO pl7
IF lpl7>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=lpl7
    STORE pl7+CHR(lpl7&lnumber) TO pl7
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF
*
*-----start emphasized print-----
*
ERASE
STORE STR(lep,1) TO lmno
? '          PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR START EMPHASIZED PRINTING'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lep
  STORE $(ep,lno,1) TO lep&lnumber
  STORE RANK(lep&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  RELEASE ALL LIKE lep?
  STORE 0 TO lep
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber
  STORE 1 TO lno
  @ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lep PICTURE '9'

```

```

READ
DO WHILE lno<=lep
  STORE lrow+1 TO lrow
  STORE 0 TO lep&lnumber
  @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lep&lnumber PICTURE '99'
  READ
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lep1) TO ep
IF lep>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=lep
    STORE ep+CHR(lep&lnumber) TO ep
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF
*
*-----stop emphasized print-----
*
ERASE
STORE STR(lepoff,1) TO lmno
? '          PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR STOP EMPASIZED PRINTING'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=lepoff
  STORE $(epoff,lno,1) TO lepoff&lnumber
  STORE RANK(lepoff&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  RELEASE ALL LIKE lepoff?
  STORE 0 TO lepoff
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber
  STORE 1 TO lno
  @ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET lepoff PICTURE '9'
  READ

```

```

DO WHILE lno<=lepoff
  STORE lrow+1 TO lrow
  STORE 0 TO lepoff&lnumber
  @ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET lepoff&lnumber PICTURE '99'
  READ
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(lepoff1) TO epoff
IF lepoff>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=lepoff
    STORE epoff+CHR(lepoff&lnumber) TO epoff
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF
*
*-----start double wide print-----
*
ERASE
STORE STR(ldw,1) TO lmno
? ' PRINTER INSTALLATION'
@ 3,0 SAY 'CURRENT COMMAND FOR START DOUBLE WIDE PRINTING'
@ 4,0 SAY 'REQUIRES &lmno CODE(S) AS FOLLOWS:'
STORE 1 TO lno
STORE '1' TO lnumber
STORE 6 TO lrow
DO WHILE lno<=ldw
  STORE $(dw,lno,1) TO ldw&lnumber
  STORE RANK(ldw&lnumber) TO lcode
  @ lrow,10 SAY 'CODE.. &lnumber .. IS.... ' GET lcode PICTURE '99'
  CLEAR GETS
  STORE lno+1 TO lno
  STORE STR(&lnumber+1,1) TO lnumber
  STORE lrow+1 TO lrow
ENDDO
STORE 'N' TO lchange
STORE lrow+1 TO lrow
@ lrow,0 SAY 'DO YOU WANT TO CHANGE THESE CODES? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  RELEASE ALL LIKE ldw?
  STORE 0 TO ldw
  STORE lrow+2 TO lrow
  STORE '1' TO lnumber
  STORE 1 TO lno
  @ lrow,2 SAY 'ENTER THE NUMBER OF CODES: ' GET ldw PICTURE '9'
  READ
  DO WHILE lno<=ldw

```

```

STORE lrow+1 TO lrow
STORE 0 TO ldw&lnumber
@ lrow,9 SAY 'ENTER DECIMAL CODE: ' GET ldw&lnumber PICTURE '99'
READ
STORE lno+1 TO lno
STORE STR(&lnumber+1,1) TO lnumber
ENDDO
STORE CHR(ldw1) TO dw
IF ldw>1
  STORE 2 TO lno
  STORE '2' TO lnumber
  DO WHILE lno<=ldw
    STORE dw+CHR(ldw&lnumber) TO dw
    STORE lno+1 TO lno
    STORE STR(&lnumber+1,1) TO lnumber
  ENDDO
ENDIF
ENDIF

```

```

*
*-----test printer installation-----
*

```

```

ERASE
STORE 'Y' TO ltest
? '          PRINTER INSTALLATION'
@ 3,0 SAY 'DO YOU WANT TO TEST YOUR PRINTER INSTALLATION? ';
GET ltest PICTURE '!'
READ
IF ltest='Y'
  SET FORMAT TO PRINT
  @ 1,0 SAY pl0+'This is ten characters per inch.'
  @ 3,0 SAY pl2+'This is twelve characters per inch.'
  @ 5,0 SAY pl7+'This is seventeen characters per inch.'
  @ 7,0 SAY ep+pl0+'This is ten characters per inch;
emphasized.'+epoff
  @ 9,0 SAY dw+'This is DOUBLE WIDE 10 pitch.'+pl0
  EJECT
  SET FORMAT TO SCREEN
ELSE
  STORE 'Y' TO lok
  LOOP
ENDIF
@ 5,0 SAY 'IS THE PRINT OUT CORRECT? ' GET lok PICTURE '!'
READ
ERASE

```

```

ENDDO
*
*-----organizational title-----
*

```

```

ERASE
? '          TITLE TO APPEAR IN MENUS'
@ 3,0 SAY 'CURRENT ORGANIZATION TITLE IS: ' GET orgname
CLEAR GETS

```

```

STORE 'Y' TO lchange
@ 5,0 SAY 'DO YOU WANT TO CHANGE THE TITLE? ' GET lchange PICTURE '!'
READ
IF lchange='Y'
  @ 5,0
  @ 5,0 SAY 'ENTER YOUR ORGANIZATION TITLE: ' GET orgname
  @ 6,0 SAY ' (30 Characters maximum)'
  READ
  STORE TRIM(orgname) TO orgname
  STORE LEN(orgname) TO lorg
  DO WHILE @(' ',orgname)=1
    STORE lorg-1 TO lorg
    STORE $(orgname,2,lorg) TO orgname
  ENDDO
  STORE LEN(orgname) TO lorg
  STORE 30 TO lmax
  DO WHILE lorg<lmax
    STORE ' '+orgname TO orgname
    STORE lorg+1 TO lorg
    IF lorg<lmax
      STORE orgname+' ' TO orgname
      STORE lorg+1 TO lorg
    ENDIF
  ENDDO
ENDIF
*
*-----installation complete-----
*      * release temporary memory variables
ERASE
? 'WAIT.. SAVING CONTROL CODES TO DISK'
RELEASE ALL LIKE l*
SAVE TO install
ERASE
?
?
?
?
?
?
?
?
?
? 'THE INSTALLATION IS COMPLETE. YOUR CONTROL CODES HAVE BEEN SAVED'
? 'TO DISK IN A FILE NAMED - INSTALL.MEM. THIS FILE MUST BE ON THE '
? 'DISK WITH THE ACMS dBASE-II COMMAND FILES. YOU MAY CHANGE THESE'
? 'CODES AT ANY TIME BY RUNNING THE INSTALL PROGRAM AGAIN.'
?
?
?
?
?
?
?

```

INSTALL.CMD

```
?  
?  
?  
? 'PRESS <RETURN> TO BEGIN ACMS..'  
SET CONSOLE OFF  
WAIT  
SET CONSOLE ON  
*  
*****  
DO ACMS  
*****  
*  
QUIT  
*  
* END INSTALL.CMD  
*
```

AD-A143 032

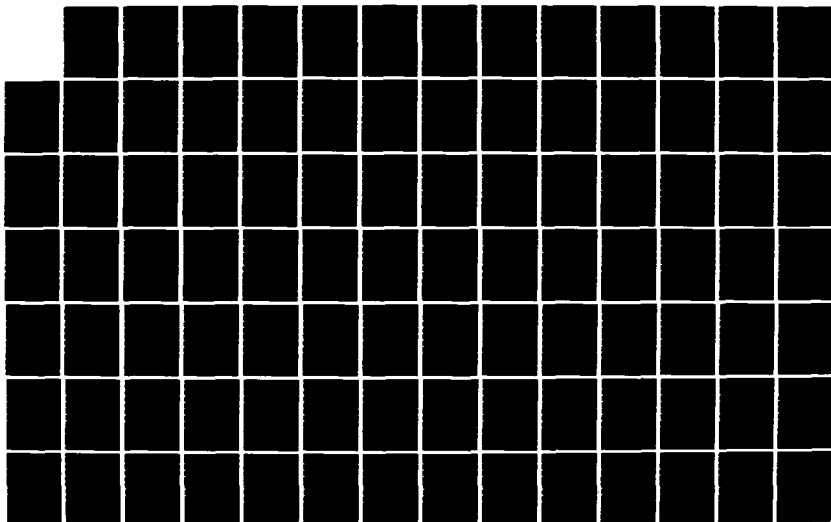
AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM (ACMS) VOLUME
2 PROGRAM DOCUMENTATION(U) CONSTRUCTION ENGINEERING
RESEARCH LAB (ARMY) CHAMPAIGN IL C E HERRING JUN 84
CERL-TR-P-158-VOL-2

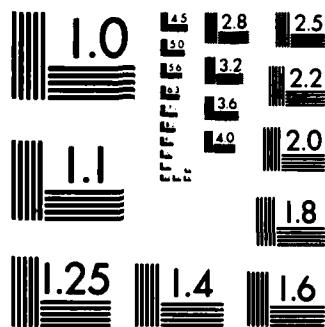
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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*

```

*      DESCRIPTION: Implements initial WPR activity data base. An IWPR is a
*                  special case of a WPR in which the subtasks that make
*                  up the task (cpm i-j's) are listed. The data on the
*                  IWPR consist of i, j, description, and scheduled
*                  manhours. These data are used to calculate the percent
*                  complete of the task. This program provides for input,
*                  change, deletion, and printout of the IWPR data. Total
*                  scheduled and actual manhours, and actual percent complete
*                  are stored in PS.DBF. These are corrected after changes
*                  and deletions.

```

@ 17,10 SAY "*" *"

```

@ 18,10 SAY "*" <0> Exit
@ 19,10 SAY "*"
@ 20,10 SAY "*****"
@ 21,10
@ 22,10 SAY "OPTION? " GET mcmd PICTURE '9'
READ NOUP
CLEAR GETS
IF (mcmd >='1').AND.(mcmd<='4')
  @ 22,10
  @ 22,10 SAY 'Enter Schedule No. : ' GET msno
  READ NOUP
  CLEAR GETS
  SELECT SECONDARY
  FIND '&msno'
  IF #=0
    STORE 'Schedule NOT in Task Data Base' TO note
  @ 22,10
  @ 22,10 GET NOTE
  CLEAR GETS
  STORE 0 TO mark
  DO WHILE mark<75
    STORE mark+1 TO mark
  ENDD
  @ 22,10
  LOOP
  ENDIF

  SELECT PRIMARY
  FIND "&msno"
  IF #=0.AND.mcmd<>'1'
    STORE 'There is no IWPR data for this task' TO note
    @ 22,10 GET note
    CLEAR GETS
    STORE 1 TO nu
    DO WHILE nu<100
      STORE nu+1 TO nu
    ENDDO
    LOOP
  ENDIF

  *
  * task in data base -- show user header information
  SELECT SECONDARY
  ERASE
  STORE 'N' to mok
  @ 1,22 SAY "INITIAL WPR DATA BASE"
  @ 3,5 SAY "SCHEDULE NUMBER: " get msno
  @ 3,40 SAY "Title : " get title
  @ 4,5 SAY "Battalion : " get bn
  @ 4,40 SAY "Location : " get loc
  CLEAR GETS
  @ 6, 15 SAY "Is this the correct task? (y/n)" ;

```

```

GET mok PICTURE '!'
READ NOUP
CLEAR GETS
IF !(mok)<> 'Y'
    LOOP
ENDIF

```

```

ENDIF

```

```

*
*-----special case of mcmd='3' : option to delete all-----
*

```

```

IF mcmd='3'
    * delete i-j's or all i-j's for task
    @ 1,0
    @ 1,16 SAY "INITIAL WPR DATA BASE -- DELETE I-J's"
    @ 6,0
    STORE 'N' TO mdel
    @ 6,10 SAY "DO YOU WANT TO DELETE ALL I-J's ?" GET mdel PICTURE '!'
    READ NOUP
    IF mdel='Y'
        STORE 'N' TO mdel
        @ 8,18 SAY "ARE YOU SURE ?" GET mdel PICTURE '!'
        READ NOUP
        IF mdel='Y'
            @ 6,0
            ?
            ?
            ? "                OKAY!"
            SELECT PRIMARY
            DELETE ALL FOR sno=msno
            * * zero out totals in ps.dbf
            SELECT SECONDARY
            USE ps INDEX ps
            FIND '&msno'
            REPLACE s.smh WITH 0,s.amh WITH 0,s.per WITH 0 NOUPDATE
            USE pdf INDEX pdf
            SELECT PRIMARY
            STORE '1' TO mcmd
            LOOP
        ENDIF
    ENDIF
ENDIF

```

```

ENDIF

```

```

*
*-----start main case structure-----
*

```

```

DO CASE

```

```

    *      * input mode

```

```

    CASE mcmd= '1'

```

```

*      * variable to store total change in schedule manhours
STORE 0 TO chg:smh

```

```

@ 1,0
@ 1,16 SAY "INITIAL WPR DATA BASE -- INPUT I-J's"
@ 6,0
@ 9,1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 10,1 SAY "| Start | End | Description | Man Hours | Man Hours | Percent |"
@ 11,1 SAY "| Node I | Node J | | Scheduled | Actual | Complete |"
@ 12,1 SAY "+-----+-----+-----+-----+-----+-----+"

SELECT PRIMARY
STORE "Y" TO mmore
DO WHILE !(mmore)<>'N'
    STORE 'Y' TO mmore
    STORE "want to add new i-j's?(y/n)" TO note
    @ 21,5
    @ 21,5 GET note
    CLEAR GETS
    @ 21,34 GET mmore
    READ NOUP
    @ 21,5
    CLEAR GETS
    IF !(mmore)<>"Y"
        STORE 'N' TO mmore
    LOOP
ENDIF

@ 13, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 14, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 15, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 16, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 17, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 18, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 19, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 20, 1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 22, 0 SAY "Type CTR-Q: to quit      ; CTR-F: next field      ; CTR-A: previous field ;"
@ 23, 0 SAY "      CTR-W: next screen ; CTR-D: next character ; CTR-S: next character ;"

STORE 1 TO nu
STORE 13 TO row
DO WHILE (nu<5).AND.!(mmore)<>'N'
    APPEND BLANK
    REPLACE sno WITH msno
    @ row,3 GET i
    @ row,12 GET j
    @ row,21 GET des
    @ row,39 GET smh
    *      * user cannot enter actual manhours
    *      * or percent complete here
    STORE nu+1 TO nu
    STORE row+2 TO row
    READ
    *      * end input condition
    IF (p.i=0).AND.(p.j=0).AND.(p.smh=0)
        DELETE

```

```

        STORE 5 TO nu
        LOOP
    ELSE
        *          * accumulate total schedule manhours
        STORE p.smh+chg:smh TO chg:smh
    ENDIF

    ENDDO
    ENDDO WHILE !(mmore)<> 'N'
    *          * record changes in ps.dbf scheduled
    @ 21,0
    STORE "Wait.." TO note
    @ 21,5 GET note
    CLEAR GETS
    SELECT SECOND
    USE ps INDEX ps
    FIND '&msno'
    STORE s.smh TO old:smh
    REPLACE s.smh WITH s.smh+chg:smh NOUPDATE
    STORE s.actper TO old:per
    * * must recalculate actual percent complete
    REPLACE s.actper WITH (old:per*old:smh)/s.smh NOUP
    SELECT SECONDARY
    USE pdf INDEX pdf
    RELEASE chg:smh,old:smh,old:per
    STORE 'Y' TO mprn
    @ 21,0
    @ 21,5 say 'Do you want a printout for this Task? ' ;
    GET mprn PICTURE '!'
    READ NOUP
    IF !(mprn)='Y'
        STORE '4' TO mcmd
        STORE 'B' TO prn
    ENDIF
    RELEASE note,mprn

```

```

CASE mcmd='2'

```

```

    *          * change IWPR data
    *          * variables to store changes to
    *          * manhours and percent complete
    STORE 0 TO chg:amh,chg:smh,old:per,new:per

```

```

@ 1,0
@ 1,15 SAY "INITIAL WPR DATA BASE -- CHANGE I-J's"
@ 6,0 say '
STORE 'NOTE: Enter 0 for Start Node to STOP' TO note
@ 7,10 GET note
CLEAR GETS
@ 9,1 SAY "+-----+-----+-----+-----+-----+-----+"
@ 10,1 SAY "| Start | End | Description | Man Hours | Man Hours | Percent |"
@ 11,1 SAY "| Node I | Node J | | Scheduled | Actual | Complete |"
@ 12,1 SAY "+-----+-----+-----+-----+-----+-----+"

```

```
SELECT PRIMARY
STORE "Y" TO mmore
```

```
DO WHILE mmore<>'N'
```

```
@ 13, 1 SAY " | | | | | | | | "
@ 14, 1 SAY " +-----+-----+-----+-----+-----+-----+-----+-----+ "
@ 15, 1 SAY " | | | | | | | | "
@ 16, 1 SAY " +-----+-----+-----+-----+-----+-----+-----+-----+ "
@ 17, 1 SAY " | | | | | | | | "
@ 18, 1 SAY " +-----+-----+-----+-----+-----+-----+-----+-----+ "
@ 19, 1 SAY " | | | | | | | | "
@ 20, 1 SAY " +-----+-----+-----+-----+-----+-----+-----+-----+ "
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ;"
@ 23, 0 SAY "    CTR-W: next screen ; CTR-D: next character ; CTR-S: next character ;"

    STORE 1 TO nu
    STORE 13 TO row
    DO WHILE (nu<5).AND.!(mmore)<>'N'
    STORE 0 TO mi
    @ row, 3 GET mi PICTURE '9999'
    READ NOUP
    CLEAR GETS
    IF mi=0
        STORE 5 TO nu
        LOOP
    ENDIF
    STORE 0 TO mj
    @ row,12 GET mj PICTURE '9999'
    READ NOUP
    CLEAR GETS
    STORE msno+str(mi,4,0)+str(mj,4,0) to mkey
    FIND '&mkey'
    IF #=0
        STORE 'I-J NOT FOUND!'+CHR(7) TO note
        @ 21,5
        @ 21,5 GET note
        CLEAR GETS
        LOOP
    ENDIF
    STORE p.smh TO tsmh
    STORE p.amh TO tamh
    STORE smh*per+old:per TO old:per
    @ row,21 GET des
    @ row,39 GET smh
    @ row,52 GET amh
    @ row,65 GET per
    STORE nu+1 TO nu
    STORE row+2 TO row
    READ NOUP
    *          * calculate changes
    *          * to scheduled, actual, and percent complete
    STORE p.smh-tsmh+chg:smh TO chg:smh
```

```

STORE p.amh-tamh+chg:amh TO chg:amh
STORE smh*per+new:per TO new:per
@ 21,0
ENDDO

```

```

STORE 'Want to make more changes? ' TO note
@ 21,5 GET note
CLEAR GETS
@ 21,31 GET mmore PICTURE '!'
READ NOUP
CLEAR GETS
@ 21,0
ENDDO WHILE !(mmore)<> 'N'

```

```

*      * calculate and record changes in ps.dbf
@ 21,0
STORE "Wait.."to note
@ 21,5 GET note
CLEAR GETS
SELECT SECOND
USE ps INDEX ps
FIND '&msno'
STORE s.smh TO old:smh
REPLACE s.smh WITH s.smh+chg:smh,s.amh WITH s.amh+chg:amh NOUP
STORE s.smh TO new:smh
STORE s.actper TO temp
REPLACE s.actper WITH ((old:smh*temp)-old:per+new:per)/new:smh NOUP
RELEASE chg:smh,chg:amh,new:per,old:per,old:smh,temp,new:smh
SELECT SECOND
USE pdf INDEX pdf
STORE 'Y' TO mprn
@ 21,0
@ 21,5 say 'Do you want a printout for this Task? ' ;
GET mprn PICTURE '!'
READ NOUP
IF !(mprn)='Y'
  STORE '4' TO mcmd
  STORE 'B' TO prn
ENDIF
RELEASE note,mprn

```

```

CASE mcmd='3'

```

```

*      * variables to store changes
STORE 0 TO chg:smh,chg:amh,chg:per
@ 6,0
@ 7,0
@ 8,0
STORE 'Enter 0 for Start Node to STOP' to note

```

@ 7,10 GET note

CLEAR GETS

@ 9,1 SAY "-----"

	Start	End	Description	Man Hours	Man Hours	Percent
@ 10,1 SAY "	Node I	Node J		Scheduled	Actual	Complete

@ 11,1 SAY "-----"

@ 12,1 SAY "-----"

SELECT PRIMARY

STORE "Y" TO mmore

DO WHILE mmore<>'N'

@ 13, 1 SAY "-----"

@ 14, 1 SAY "-----"

STORE 0 TO mi

@ 13,3 GET mi PICTURE '9999'

READ NOUP

CLEAR GETS

IF mi=0

STORE 'N' TO mmore

LOOP

ENDIF

STORE 0 TO mj

@ 13,12 GET mj PICTURE '9999'

READ NOUP

CLEAR GETS

STORE msno+str(mi,4,0)+str(mj,4,0) to mkey

FIND '&mkey'

IF #=0

STORE 'I-J NOT FOUND!'+CHR(7) TO notel

@ 21,5

@ 21,5 GET notel

CLEAR GETS

LOOP

ENDIF

@ 13,21 GET des

@ 13,39 GET smh

@ 13,52 GET amh

@ 13,65 GET per

CLEAR GETS

STORE 'N' TO mdel

STORE "DO YOU WANT TO DELETE THIS I-J ? " TO note

@ 21,5 GET note

CLEAR GETS

@ 21,40 GET mdel PICTURE '!'

READ NOUP

IF mdel='Y'

@ 21,5

* * calculate changes

STORE p.smh+chg:smh TO chg:smh

STORE p.amh+chg:amh TO chg:amh

STORE p.smh*p.per+chg:per TO chg:per

DELETE


```

ENDIF
ENDDO
  @ 21,0
  *      * calculate and record changes in ps.dbf
  STORE "Wait.." to note
  @ 21,5 GET note
  CLEAR GETS
  SELECT SECONDARY
  USE ps INDEX ps
  FIND '&msno'
  STORE s.smh TO old:smh
  REPLACE s.smh WITH s.smh-chg:smh NOUPDATE
    IF s.amh>=chg:amh
      REPLACE s.amh WITH s.amh-chg:amh NOUPDATE
    ENDIF
  STORE s.smh TO new:smh
  STORE s.actper TO old:per
  REPLACE s.actper WITH ((old:per*old:smh)-chg:per)/new:smh NOUPDATE
  RELEASE chg:amh,chg:smh,chg:per,old:smh,old:per,new:smh
  SELECT SECOND
  USE pdf INDEX pdf
STORE 'Y' TO mprn
@ 21,0
@ 21,5 say 'Do you want a printout for this Task? ' ;
GET mprn PICTURE '!'
READ NOUP
IF !(mprn)='Y'
  STORE '4' TO mcmd
  STORE 'B' TO prn
ENDIF
RELEASE note,mprn

CASE mcmd= '4'
      *      * print out task data
      *      * and recalculate total schedule
      *      * actual manhours and percent complete

STORE 'Y' TO mprint
IF prn='A'
@ 6, 0 SAY '
@ 6, 20 SAY 'Do you want a print-out? ' GET mprint PICTURE '!'
READ NOUP
ENDIF
CLEAR GETS

*      * display IWPR data for a task
SELECT SECONDARY
GO TOP
FIND '&msno'
STORE bn TO mbn
STORE title TO mtitle

```

```

STORE loc TO mloc
STORE sdate TO msdate
STORE cdate TO mcdate
STORE 'A' TO fix
DO WHILE fix='A'
*      * get total scheduled manhours
USE ps INDEX ps
FIND '&msno'
STORE s.smh TO old:smh
USE pdf INDEX pdf
SELECT PRIMARY
FIND '&msno'
*      * printout or display ?
IF !(mprint)= 'Y'
  STORE 'say' TO gs
  STORE 55 TO maxrow
  SET FORMAT TO PRINT
ELSE
  STORE 'get' TO gs
  STORE 23 TO maxrow
  SET FORMAT TO SCREEN
  ERASE
ENDIF !(mprint)= 'Y'
*      * variables for total schedule and actual manhours
STORE 0 TO tamh,tsmh
      0.00 TO tper
      FILE p.sno=msno.AND.(.NOT.EOF)
      STORE 7 TO row
@ 1, 5 SAY "Schedule No. :"
@ 1,20 &gs msno
@ 1,40 SAY "Title      :"
@ 1,52 &gs mtitle
@ 2, 5 SAY "Battalion   :"
@ 2,20 &gs mbn
@ 2,40 SAY "Location    :"
@ 2,52 &gs mloc
@ 3, 5 SAY "Start Date   :"
@ 3,20 &gs msdate
@ 3,40 SAY "Compl Date:"
@ 3,52 &gs mcdate
@ 5, 0 SAY "      I      J      Description      SCH Mhours      ACT Mhours      %WT      % Comp"
@ 6, 0 SAY " ===== ===== ===== ===== ===== ===== ===== ====="

DO WHILE p.sno=msno.AND.(.NOT.EOF).AND.row<maxrow
  @ row,2 SAY p.i USING '9999'
  @ row,9 SAY p.j USING '9999'
  @ row,16 SAY $(p.des,1,16)
  @ row,36 SAY p.smh USING '99,999'
  @ row,49 SAY p.amh USING '99,999'
  @ row,59 SAY (p.smh/old:smh)*100.00 USING '999.99'
  @ row,68 SAY p.per USING '999'
  STORE p.amh+tamh TO tamh

```

```

        STORE p.smh+tsmh TO tsmh
        STORE ((p.smh/old:smh)*p.per)+tper TO tper
        STORE row+2 TO row
        SKIP +1
    ENDDO WHILE p.sno=msno.AND.(.NOT.EOF).AND.row<maxrow
    IF (p.sno<>msno).OR.EOF
@ row,0 SAY "-----"
@ row+1,16 SAY 'TOTALS:'
@ row+1,36 SAY tsmh USING '999,999'
@ row+1,49 SAY tamh USING '999,999'
@ row+1,68 SAY tper USING '999.99'
        ENDIF
        IF !(mprint)= 'Y'
            EJECT
        ELSE
            STORE 'Press any key to continue' TO note
            @ 23,20 GET note
            CLEAR GETS
            SET CONSOLE OFF
            WAIT
            SET CONSOLE ON
            ERASE
            ENDIF !(mprint)= 'Y'

    ENDDO WHILE p.sno=msno.AND.(.NOT.EOF)

    IF !(mprint)= 'Y'
        EJECT
        SET FORMAT TO SCREEN
    ENDIF
    * * store correct totals in ps.dbf
    SELECT SECOND
    USE ps INDEX ps
    FIND '&msno'
    REPLACE s.smh WITH tsmh,s.amh WITH tamh,s.actper WITH tper NOUPDATE
    USE pdf INDEX pdf
    * * tell user error was found
    * * old schedule manhours incorrect
    * * must regenerate report
    IF (tsmh<>old:smh)
        ERASE
        @ 10,0 SAY CHR(7)+CHR(7)+CHR(7)+CHR(7)
        ? 'INCONSISTENT DATA FOUND : IT HAS BEEN CORRECTED'
        ? 'DISREGARD LAST REPORT : CORRECT REPORT FOLLOWS'
    ELSE
        STORE 'B' TO fix
        RELEASE mbn,mtitle,mloc,msdate,mcdate,tamh,tper,tsmh,row
        RELEASE old:smh
    ENDIF
ENDDO

```

CASE mcmd= '5'

```

*          * display tasks that have IWPR data
SELECT PRIMARY
GOTO TOP
IF #=0
  @ 22,10 SAY '
  @ 22,10 SAY 'There are NO IWPR's in the data base '
  STORE 1 TO COUNT
  DO WHILE COUNT<100
    STORE COUNT+1 TO COUNT
  ENDDO WHILE COUNT<100
ELSE
  SELECT SECONDARY
  GOTO TOP
  IF #=0
    @ 21,10 SAY '
    STORE 'There are NO tasks in Task Data Base!' TO note
    @ 21,10 GET note
    CLEAR GETS
    STORE 1 TO COUNT
    DO WHILE COUNT<100
      STORE COUNT+1 TO COUNT
    ENDDO WHILE COUNT<100
  ELSE
    STORE s.sno TO msno
    STORE 'Y' TO mprint
    @ 22,10 SAY '
    @ 22,10 SAY 'Do you want a print-out? (y/n) ' ;
    GET mprint PICTURE '!'
    READ NOUP
    CLEAR GETS
    @ 22,10 SAY '
    STORE 'WAIT...PROCESSING' TO note
    @ 22,10 GET note
    CLEAR GETS
    SELECT SECONDARY
    IF !(mprint)= 'Y'
      SET FORMAT TO PRINT
      STORE 62 TO maxrow
    ELSE
      SET FORMAT TO SCREEN
      STORE 24 TO maxrow
      ERASE
    ENDIF !(mprint)= 'Y'

```

```

DO WHILE .NOT.EOF
@ 1,23 SAY "Tasks that HAVE IWPR data"
@ 3,5 SAY "Sch. No.  Battalion          Title          Location"
@ 4,5 SAY "=====  =====  =====  =====  "
STORE 6 TO row

```

```

DO WHILE .NOT. EOF.AND.row<maxrow

```

```

SELECT PRIMARY
FIND '&msno'
IF #<>0
    @ row,6 SAY s.sno
    @ row,18 SAY s.bn
    @ row,28 SAY s.title
    @ row,54 SAY s.loc
    STORE row+2 TO row
ENDIF #<>0
SELECT SECONDARY
SKIP
STORE s.sno TO msno
ENDDO WHILE .NOT. EOF.AND.row<maxrow

IF !(mprint)= 'Y'
    EJECT
ELSE
    STORE 'Y' TO con
    @ 23,20 SAY "Continue ? " GET con PICTURE '!'
    READ NOUP
    CLEAR GETS
    IF !(con)='Y'
        ERASE
    ELSE
        GO BOTT
        SKIP
    ENDIF
ENDIF !(mprint)= 'Y'
ENDDO WHILE .NOT.EOF

IF !(mprint)='Y'
    EJECT
    SET FORMAT TO SCREEN
ENDIF

ENDIF #=0

ENDIF #=0

CASE mcmd= '6'
    *      * display tasks not having IWPR data
    SELECT SECONDARY
    GOTO TOP
    IF #=0
        @ 22,10 SAY '
        @ 22,10 SAY 'There are NO tasks in Project Data Base!'
        STORE 1 TO COUNT
        DO WHILE COUNT<100
            STORE COUNT+1 TO COUNT
        ENDDO WHILE COUNT
    ELSE
        SELECT PRIMARY

```

```

GOTO TOP
IF #=0
  @ 22,10 SAY '
  STORE "There are NO IWPR's in the Data Base!" TO note
  @ 22,10 GET note
  CLEAR GETS
  STORE 1 TO COUNT
  DO WHILE COUNT<100
    STORE COUNT+1 TO COUNT
  ENDDO WHILE COUNT<100
ELSE
  STORE 'Y' TO mprint
  @ 22,10 SAY '
  @ 22,10 SAY 'Do you want a print-out? (y/n) ';
  GET mprint PICTURE '!'
  READ NOUP
  CLEAR GETS
  @ 22,10 SAY '
  STORE 'WAIT...PROCESSING' TO note
  @ 22,10 GET note
  CLEAR GETS
  IF !(mprint)= 'Y'
    SET FORMAT TO PRINT
    STORE 62 TO maxrow
  ELSE
    SET FORMAT TO SCREEN
    STORE 24 TO maxrow
  ERASE
  ENDIF !(mprint)= 'Y'

  SELECT SECONDARY
  GO TOP
  STORE s.sno TO msno
  DO WHILE .NOT.EOF
    @ 1,18 SAY "Tasks that have NO IWPR data"
    @ 3,5 SAY "Sch. No.  Battalion          Title                      Location"
    @ 4,5 SAY "=====  =====  =====  =====  "

    STORE 6 TO row
    STORE 0 TO COUNT
    DO WHILE .NOT. EOF.AND.row<maxrow
      SELECT PRIMARY
      FIND '&msno'
      IF #=0
        @ row,6 SAY s.sno
        @ row,18 SAY s.bn
        @ row,28 SAY s.title
        @ row,54 SAY s.loc
        STORE row+2 TO row
        STORE COUNT+1 TO COUNT
      ENDIF #=0
      SELECT SECONDARY
      SKIP

```

```

        STORE s.sno TO msno
    ENDDO WHILE .NOT. EOF.AND.row<maxrow

    IF COUNT=0
        @ 6,15 SAY "ALL Tasks in Project Data Base HAVE IWPR's!"
        IF !(mprint)<> 'Y'
            STORE 1 TO COUNT
            DO WHILE COUNT<100
                STORE COUNT+1 TO COUNT
            ENDDO WHILE COUNT<100
        ENDIF !(mprint)<> '/'
    ENDIF COUNT=0

    IF !(mprint)= 'Y'
        EJECT
    ELSE
        STORE 'Y' TO con
        @ 23,20 SAY "Continue ? " GET con PICTURE '!'
        READ NOUP
        CLEAR GETS
        IF !(con)='Y'
            ERASE
        ELSE
            GO BOTT
            SKIP
        ENDIF
    ENDIF !(mprint)= 'Y'

    ENDDO WHILE .NOT.EOF

    IF !(mprint)='Y'
        EJECT
        SET FORMAT TO SCREEN
    ENDIF
    ENDIF #=0
    ENDIF #=0

CASE mcmd= '0'
    *      * backup data base to B drive
    *      * ask user if backup is needed before exiting program
    STORE 'Y' TO mbak
    @ 22,0 SAY "
    @ 22,10 SAY "Do you want to backup the IWPR database to B drive? " ;
    GET mbak PICTURE '!'
    READ NOUP
    IF !(mbak)= 'Y'
        ERASE
        @ 10,10
        ? "Copying to B: ...Be patient"
        ?
        ?

```

```
?  
?  
SELECT PRIMARY  
USE  
USE act  
COPY STRUCTURE TO b:act  
USE b:act  
INDEX ON sno+STR(i,4,0)+STR(j,4,0) TO b:act  
SET INDEX TO b:act  
APPEND FROM a:act  
ERASE  
RETURN  
ENDIF !(mbak)= 'Y'  
ERASE  
QUIT  
ENDCASE  
  
ENDDO mcmd<> '0'  
*  
*      * END ACTMNU.CMD  
*
```


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USA-CERL

DESCRIPTION: This is a subroutine of PDFMNU2.CMD and lists task data for each schedule number in TPDF.DBF (a temporary data base). User may display on screen (SPPDF.CMD) or send to printer (PPDF.CMD).

[illegible]

```
IF !(mprint) = "Y"
```

DO pdf

```

SELECT SECONDARY
USE tpdf
GOTO mrec
SKIP +1

```

```
ENDDO WHILE .NOT.EOF
EJECT
SET FORMAT TO SCREEN
ELSE
  *      * display on console
  DO WHILE (.NOT.EOF).AND.(mstop=0)
    STORE # TO mrec
    STORE sno TO msno
    SELECT PRIMARY
    FIND '&msno'
    *****
    DO sppdf
    *****
    SELECT SECONDARY
    GOTO mrec
    USE tpdf
    SKIP +1
  ENDDO WHILE .NOT.EOF
ENDIF !(mprint)= 'Y'
SELECT SECONDARY
USE ps INDEX ps
*      * delete temporary file
DELET FILE tpdf
RETURN
*
*      * END LISTPDF.CMD return to PDFMNU2.CMD
*
```

```
*****
*
*
*           A - C - M - S   Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: MCTRPT.CMD
*
*   DESCRIPTION: Monthly Contractor and Troop Construction Report.
*               Produces a report comparing estimated contractor and
*               troop construction cost for a monthly period. The period
*               data are obtained by subtracting the current totals from
*               totals of the last period. There are three fields in the
*               PS.DBF data base used to store the last period data:
*               pper = last period percent complete, pfunds = total funds
*               since last report, pdirdays = total mandays since last
*               report. Note: The report can only be generated once.
*
*   CALLS: none
*
*****
```

```
ERASE
```

```
SET DELETE ON
```

```
SET COLON OFF
```

```
SET TALK OFF
```

```
@ 1,0 SAY '           MONTHLY CONTRACT AND TROOP REPORT'
```

```
*           * get printer/console control codes
```

```
RESTORE FROM install ADDITIVE
```

```
*           * store project types to memory variables
```

```
STORE " " TO mpjtype0
```

```
STORE "Operations and Maintenance, ARMY" TO mpjtype3
```

```
STORE "Minor Military Construction, ARMY" TO mpjtype2
```

```
STORE "Military Construction, ARMY" TO mpjtype1
```

```
STORE "Minor Maintenance and Repair" TO mpjtype4
```

```
STORE "Community Assistance Projects" TO mpjtype5
```

```
STORE "Disaster Relief Projects" TO mpjtype6
```

```
STORE "Self Help Projects" TO mpjtype7
```

```
*           * get date of last processing
```

```
SELECT SECONDARY
```

```
USE misc
```

```
STORE date TO mdate
```

```
@ 3,0 SAY 'For Period Ending:' get mdate
```

```
CLEAR GETS
```

```
STORE 'Y' TO mok
```

```
@ 5,0 SAY 'Is the Period Ending Date OK? (y/n) ' get mok picture '!'
```

```
READ
```

```
CLEAR GETS
```

```
IF mok<>'Y'
```

```
RETURN
```

```

ENDIF
@ 7,0
? "Set Printer to Top-of-Form"
? "      Press RETURN to print"
SET CONSOLE OFF
WAIT
SET CONSOLE ON
ERASE
@ 1,0 SAY '          MONTHLY CONTRACT AND TROOP REPORT'
@ 3,0 SAY '          For Period Ending:'get mdate
CLEAR GETS
@ 7,29 SAY CHR(27)+'G'+ '6'+ 'PROCESSING'+CHR(27)+'G'+ '0'
*
*-----routine to print report-----
*
*      * get week(lastmonth) report was generated and replace with this week
STORE lastmonth TO mlastmonth
REPLACE lastmonth WITH mdate
*      * routine to convert mmdyy to military date: dd MMM yy
STORE 'JANFEBMARAPRMAYJUNJULAUGSEPOCTNOVDEC' TO year
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+' ' +$(year,(val(mnth)*3-2),3)+' ' +$(mdate,5,2) TO mil
STORE $(mlastmonth,1,2) TO mnth
STORE $(mlastmonth,3,2)+' ' +$(year,(val(mnth)*3-2),3)+' ' +$(mlastmonth,5,2) TO
milast
*      * use task data to print report in battalion order
*      * indexed by battalion,project type, and customer
SELECT PRIMARY
USE pdf
INDEX ON !(bn)+pjtype+$(customer,1,8) TO pdf.mon
SET INDEX TO pdf.mon
GOTO TOP
DO WHILE .NOT.EOF
  SET FORMAT TO SCREEN
  STORE bn TO mbn
  @ 9,29 SAY "Battalion:"
  @ 9,41 GET mbn
  CLEAR GETS
  SET FORMAT TO PRINT
  @ 0,0 SAY pl2
  @ 1,7 SAY "&dw Monthly Contractor And Troop Construction Report "+pl2
  @ 2,86 SAY "Unit: &ep"+bn+"&epoff"
  @ 3,86 SAY "Period: &ep"+milast+" - "+"&mil&epoff"
  @ 5,0 SAY "          Percent          Total          Total;"
  Contractor Troop Cons. "
  @ 6,0 SAY "          Actually          Estimated Estimated;"
  Cost ($) Cost ($) Direct Cons. Cumula- "
  @ 7,0 SAY "Task No.          Placed          Contractor Troop;"
  Placed Placed Placed tive "
  @ 8,0 SAY "& Title          (period/cumulative) Cost ($) Cost ($);"
  For Period For Period Man Days Man Days"
  @ 9,0 SAY "=====;

```

```

=====
*      * tecost= total estimated contractor cost
STORE 0 TO tecost
*      * tetcost= total estimated troop construction cost
STORE 0 TO tetcost
*      * tecostl= total contractor cost placed for period
STORE 0 TO tecostl
*      * tetcostl= total troop construction cost for period
STORE 0 TO tetcostl
*      * tmdperiod = total mandays this period
STORE 0 TO tmdperiod
*      * tmdtodate = total mandays to date
STORE 0 TO tmdtodate
STORE 10 TO row
DO WHILE !(bn)=(mbn).AND.(.NOT.EOF)
  STORE pjtype TO mpjtype
  DO WHILE (pjtype=mpjtype).AND.(bn=mbn).AND.(.NOT.EOF)
    IF row>=58
      STORE 5 TO row
    ENDIF
    @ row,40 SAY mpjtype&mpjtype
    @ row+1,0 SAY "=====
=====
STORE row+2 TO row
STORE $(customer,1,10) TO mcustomer
STORE customer TO mcustomer2
*      * mecost = sub total estimated contractor cost
STORE 0 TO mecost
*      * metcost = sub total estimated troop construction cost
STORE 0 TO metcost
*      * metcost = sub total contractor cost for period
STORE 0 TO mecostl
*      * metcostl = sub total troop construction cost for period
STORE 0 TO metcostl
*      * subtmdp = sub total mandays this period
STORE 0 TO subtmdp
*      * sub total mandays to date
STORE 0 TO subtmde
DO WHILE !($(customer,1,10))!=(mcustomer).AND.(pjtype=mpjtype).AND.;
(bn=mbn).AND.(.NOT.EOF)
  IF row>=60
    STORE 6 TO row
  ENDIF
  @ row,0 SAY sno
  STORE sno TO msno
  SELECT SECONDARY
  *      * get mandays
  USE mandays INDEX mandays
  FIND "&msno"
  STORE s.ocharge+s.ncharge+s.echarge TO dirtot
  *      * ps keeps cumulatives:
  *      * pper = percent complete as of last report

```

```

*      * pfunds = total funds since last report
*      * pdirdays = total mandays since last report
USE ps INDEX ps
FIND '&msno'
STORE pper TO mpper
STORE pfunds TO mpfunds
STORE pdirdays TO mpdir
*      * mpdir = monthly mandays
STORE dirtot-mpdir TO mpdir
*      * save for next report
REPLACE pdirdays WITH dirtot
*      * current percent complete
STORE actper TO mactper
*      * percent complete for period
STORE mactper-mpper TO percentp
*      * save for next report
REPLACE pper WITH mactper
*      * actual troop cost to date
STORE ecl+ec2+ec3+ec4+ec5 TO mtcost
*      * troop cost this period
STORE mtcost-pfunds TO mpfunds
*      * save for next report
REPLACE pfunds WITH mtcost
*      * print monthly data for task
@ row+1,0 SAY $(p.title,1,20)
@ row+1,22 SAY percentp USING "999.9%"
@ row+1,31 SAY mactper USING "999.9%"
@ row+1,43 SAY p.ecost USING "$9999999999"
@ row+1,55 SAY p.etcost USING "$9999999999"
@ row+1,67 SAY p.ecost*percentp/100 USING "$9999999999"
@ row+1,79 SAY mpfunds USING "$9999999999"
@ row+1,95 SAY mpdir USING "9999999999"
@ row+1,104 SAY dirtot USING "9999999999"
@ ROW+2,0 SAY p.pno
*      * accumulate sub totals
STORE p.ecost+mecost TO mecost
STORE p.etcost+metcost TO metcost
STORE (p.ecost*percentp/100)+mecost1 TO mecost1
STORE mpfunds+metcost1 TO metcost1
STORE dirtot+subtmdec TO subtmdec
STORE mpdir+subtmdec TO subtmdec
@ row+3,0 SAY "-----";
-----"

STORE row+4 TO row
SELECT PRIMARY
SKIP 1
ENDDO
*      * print sub totals
@ row,0 SAY "&ep"+"Sub Total &mcustomer2 . . ."
@ row,44 SAY mecost USING "$9999999999"
@ row,56 SAY metcost USING "$9999999999"
@ row,68 SAY mecost1 USING "$9999999999"

```

```

@ row,80 SAY metcostl USING "$9999999999"
@ row,96 SAY subtmp USING "9999999999"
@ row,105 SAY subtmcd USING "9999999999"
@ row+1,0 SAY
"&epoff=====;
=====
      *      * accumulate totals
      STORE mecost+tecost TO tecost
      STORE metcost+tetcost TO tetcost
      STORE mecostl+tecostl TO tecostl
      STORE metcostl+tetcostl TO tetcostl
      STORE tmdperiod+subtmp TO tmdperiod
      STORE tmdtdate+subtmcd TO tmdtdate
      STORE row+2 TO row
ENDDO
ENDDO
      *      * print totals
      @ row,0 SAY "&ep"+"Total &mbn"
      @ row,44 SAY tecost USING "$9999999999"
      @ row,56 SAY tetcost USING "$9999999999"
      @ row,68 SAY tecostl USING "$9999999999"
      @ row,80 SAY tetcostl USING "$9999999999"
      @ row,96 SAY tmdperiod USING "9999999999"
      @ row,105 SAY tmdtdate USING "9999999999"
      @ row+2,0 SAY
"&epoff=====;
=====
      IF row<30
        @ 50,0 SAY '      '
        EJECT
      ENDIF
ENDDO
@ 1,0 SAY,CHR(30)
SET FORMAT TO SCREEN
SELECT PRIMARY
USE
DELETE FILE pdf.mon
ERASE
RETURN
*
*      * END MCTRPT.CMD
*
```



```

      @ 16,0 SAY '
      @ 16,0 SAY "Task NOT found, please check."
ENDIF !(mok)= 'Y'
ELSE
  *      * show user header information
  ERASE
  SET COLON OFF
  @ 2,20 SAY "PROJECT DATA FORM (page 1)"
  @ 4, 0 SAY "PN   Number: " GET pno
  @ 4,38 SAY "SCHEDULE NUMBER: " GET msno
  @ 6, 0 SAY "Title       : " GET title
  @ 6,38 SAY "Location      : " GET loc
  @ 8, 0 SAY "Battalion   : " GET bn
  @ 8,38 SAY "Project Type  : " GET pjtype
  CLEAR GETS
  @ 11, 0 SAY "Check above CAREFULLY, is this the correct task? (y/n)" ;
  GET mok PICTURE '!'
  READ
  CLEAR GETS
  IF !(mok)= 'Y'
    *****
    DO pdf1
    *****
  ENDIF !(mok)= 'Y'
  CLEAR GETS

ENDIF #=0
ERASE
STORE "Do you want to continue entering project data forms? (y/n)" TO mnote
@ 10,5 GET mnote
CLEAR GETS
@ 10,66 GET mmore PICTURE '!'
READ
ERASE
ENDDO WHILE !(mmore)= 'Y'

*      * returns to PDFMNU.CMD if mmore <> Y

RETURN
*
*      * END PDF.CMD
*
```

A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: PDF1.CMD

DESCRIPTION: Subroutine called by PDF.CMD for entering task header information. Inherits msno (schedule number) and PDF.DBF record cursor.

CALLS: PDF2.CMD, called by PDF1.CMD returns to PDF.CMD

ERASE

SET COLON OFF

@ 2,19 SAY "PROJECT DATA FORM (page 1)"

@ 4,0 SAY "SCHEDULE NUMBER: " GET msno

CLEAR GETS

@ 4,38 SAY "PN Number: " GET pno

@ 6, 0 SAY "Title : " GET title

@ 6,38 SAY "Location : " GET loc

@ 8, 0 SAY "BN/CO/PLT : / / "

@ 8,12 GET bn PICTURE '9999'

@ 8,17 GET co PICTURE 'A'

@ 8,19 GET plt PICTURE '9'

@ 8,38 SAY "Project Type : " GET pjtype

@ 10, 0 SAY "Est. Contractor Cost : " GET ecost

* * display possible task types

@ 10,38 SAY "+----- Types of Tasks -----+" "

@ 11,38 SAY "| 0) NOT SPECIFIED YET |" "

@ 12, 0 SAY "Est. Troop Const. Cost: "

@ 12,24 GET etcost

@ 12,38 SAY "| 1) Military Construction, ARMY |" "

@ 13,38 SAY "| 2) Minor Military Construction, ARMY |" "

@ 14, 0 SAY "Start Date (mmddyy) : " GET sdate

@ 14,38 SAY "| 3) Operations & Maintenance, ARMY |" "

@ 15,38 SAY "| 4) Minor Maintenance & Repair |" "

@ 16, 0 SAY "Compl. Date (mmddyy) : " GET cdate

@ 16,38 SAY "| 5) Community Assistance Projects |" "

@ 17,38 SAY "| 6) Self Help Projects |" "

@ 18, 0 SAY "Customer : " GET customer

@ 18,38 SAY "+-----+" "

@ 21, 0 SAY "-----"

;

@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field;

```

; CTR-D: next character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"

```

```

READ

```

```

CLEAR GETS

```

```

STORE 'Y' TO graf

```

```

@ 20,0 SAY "Is this a Graf project? (y/n)" GET graf PICTURE '!'

```

```

READ

```

```

CLEAR GETS

```

```

IF !(graf)<> "Y"

```

```

    * * set non-Graf TDY rates for task

```

```

    @ 20,0

```

```

    @ 20,0 SAY "Set TDY Rate      OFF:      NCO:      EM:      "

```

```

    @ 20,23 GET off PICTURE '99.99'

```

```

    @ 20,36 GET nco PICTURE '99.99'

```

```

    @ 20,48 GET em  PICTURE '99.99'

```

```

    READ

```

```

    CLEAR GETS

```

```

ENDIF !(graf)= "N"

```

```

*****

```

```

DO pdf2

```

```

*****

```

```

RETURN

```

```

*

```

```

* * END PDF1.CMD

```

```

*

```

A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: PDF2.CMD

DESCRIPTION: This routine gets task funding data for Project Data Base. All funds are stored in PDF.DBF except for allocated funds, which are stored in PS.DBF. Inherits msno and record cursor in PDF.DBF.

CALLS: by PDF1.CMD

ERASE

SET COLON OFF

STORE bn TO mbn

@ 1,19 SAY "PROJECT DATA FORM (page 2)"

@ 2, 0 SAY "SCHEDULE NO : " GET sno

@ 2,22 SAY "Title: " GET title

@ 2,48 SAY "PN No. : " GET pno

CLEAR GETS

* * esc# is for estimated funds

	TYPES OF FUNDS	ESTIMATED COST	ALLOCATED FUNDS
@ 3, 0 SAY "			
@ 4, 0 SAY "			
@ 5, 0 SAY "			
@ 6, 0 SAY "			
@ 7, 0 SAY " US TDY			
@ 7,17 GET esc1			
@ 7,31 SAY "			
@ 8, 0 SAY "			
@ 9, 0 SAY " US EQUIP			
@ 9,17 GET esc2			
@ 9,31 SAY "			
@ 10, 0 SAY "			
@ 11, 0 SAY " CSG TDY			
@ 11,17 GET esc3			
@ 11,31 SAY "			
@ 12, 0 SAY "			
@ 13, 0 SAY " CSG EQUIP			
@ 13,17 GET esc4			
@ 13,31 SAY "			
@ 14, 0 SAY "			
@ 15, 0 SAY " CSG LABOR			
@ 15,17 GET esc5			

```

@ 15,31 SAY "|          |"
@ 16, 0 SAY "+-----+"
@ 17, 0 SAY "|    TOTAL    |"
@ 17,31 SAY "|          |"
@ 18, 0 SAY "+-----+"
@ 21, 0 SAY "-----";
-----"

@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field;
; CTR-D: next character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"

READ
CLEAR GETS
STORE escl+esc2+esc3+esc4+esc5 TO mesc
@ 17,17 GET mesc
CLEAR GETS

*      * NOTE allocated funds are stored in ps.dbf
SELECT SECOND
USE ps INDEX ps
FIND '&msno'
*      * set up associated data bases for new project
IF #=0
  REPLACE sno WITH msno
  USE mandays INDEX mandays
  APPEND BLANK
  REPLACE sno WITH msno
  USE ps INDEX ps
  APPEND BLANK
  REPLACE sno WITH msno
ENDIF #=0
*      * make any changes to organization of project
REPLACE s.bn WITH p.bn,s.co WITH p.co,s.plt WITH p.plt
*      * ac# is for allocated funds
@ 7,33 GET ac1
@ 9,33 GET ac2
@ 11,33 GET ac3
@ 13,33 GET ac4
@ 15,33 GET ac5
READ
STORE ac1 TO mac1
STORE ac2 TO mac2
STORE ac3 TO mac3
STORE ac4 TO mac4
STORE ac5 TO mac5
SELECT SECOND
FIND '&msno'
REPLACE ac1 WITH mac1,ac2 WITH mac2,ac3 WITH mac3,ac4 WITH mac4,ac5 WITH mac5
STORE ac1+ac2+ac3+ac4+ac5 TO mac
@ 17,33 GET mac
CLEAR GETS
@ 20, 0 SAY "COMMENTS:"

```

```
@ 20,10 GET comments
READ
CLEAR GETS
*      * set up battalion cost data base
*      * one record per battalion
USE bn INDEX bn
find '&mbn'
IF #=0
APPEND BLANK
REPLACE bn WITH mbn,billno WITH 1,from WITH 'XXXXXX'
ENDIF
SELECT SECOND
USE ps INDEX ps
*      * return to PDF1.CMD
RETURN
*
*      * END PDF2.CMD
*
```

*

*

*

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*

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*

PROGRAM: PDFMNU.CMD

*

*

DESCRIPTION: Implements the Project Data Base. Tasks must enter the system through the Project Data Base. Main data base used is PDF.DBF. Allows user to enter and change task data display what tasks are in the data base, delete task, and set default TDY rates. Function 4 calls submenu for selective report generation.

*

*

CALLS: PDF.CMD and PDFMNU2.CMD

*

*

SET TALK OFF

SET COLON OFF

SET DELETE ON

STORE '1' TO mcmd

DO WHILE mcmd<> '6'

* * set up memory variables

STORE 'XXXXXX' TO msno

STORE '0000' TO bn

STORE 'XXXXXXXXXXXXXX' TO mdirno

STORE '1' TO mcmd

SELECT PRIMARY

USE pdf INDEX pdf

SELECT SECONDARY

USE ps INDEX ps

ERASE

@ 2,10 SAY "*****"

@ 3,10 SAY "*" PROJECT DATA BASE MENU *

@ 4,10 SAY "*****"

@ 5,10 SAY "*" *

@ 6,10 SAY "<1> Enter/Change Task Data" *

@ 7,10 SAY "*" *

@ 8,10 SAY "<2> Delete A Tasks" *

@ 9,10 SAY "*" *

@ 10,10 SAY "<3> Display/Print Schedule No.'s For All Tasks" *

@ 11,10 SAY "*" *

@ 12,10 SAY "<4> Display/Print Data For Selected Tasks" *

@ 13,10 SAY "*" *

@ 14,10 SAY "<5> Set Graf TDY Rates OFF: _____ NCO: _____ EM: _____" *

@ 15,10 SAY "*" (Current Rates = _____) *

```

@ 16,10 SAY "*"
@ 17,10 SAY "*" <6> Exit
@ 18,10 SAY "*"
@ 19,10 SAY "*****"

```

```

*      * retrieve Graf TDY rates

```

```

SELECT SECOND

```

```

USE misc

```

```

GOTO 1

```

```

@ 15,40 GET goff

```

```

@ 15,50 GET gnco

```

```

@ 15,59 GET gem

```

```

CLEAR GETS

```

```

@ 21,10 SAY "OPTION? "

```

```

@ 21,17 GET mcmd PICTURE '9'

```

```

READ

```

```

CLEAR GETS

```

```

SELECT PRIMARY

```

```

*      * primary is always pdf

```

```

DO CASE

```

```

CASE mcmd= '1'

```

```

*      * enter/change task data

```

```

*****

```

```

DO pdf

```

```

*****

```

```

CASE mcmd= '2'

```

```

*      * delete a task

```

```

@ 21,9 SAY " Enter Schedule No. to Delete " ;

```

```

GET msno PICTURE "XXXXXX"

```

```

READ

```

```

CLEAR GETS

```

```

STORE 'N' TO msure

```

```

@ 21,47 SAY "Sure? (Y/N) " GET msure PICTURE '!'

```

```

READ

```

```

CLEAR GETS

```

```

IF !(msure) = 'N'

```

```

@ 21,0 SAY "

```

```

ELSE

```

```

IF !(msure)= 'Y'

```

```

FIND '&msno'

```

```

IF #=0

```

```

@ 21,0 SAY

```

```

@ 21,20 GET msno

```

```

CLEAR GETS

```

```

@ 21,28 SAY "is NOT in Task Data Base"

```

```

ELSE

```



```

*      * delete the sno from all the involved databases
STORE "          WAIT...DELETING      "

;

TO mnote
@ 21,10 GET mnote
@ 21,37 GET msno
CLEAR GETS
DELETE
PACK
SELECT SECOND
USE ps INDEX ps
FIND '&msno'
DELETE
PACK
USE schedule INDEX schedule
DELETE FOR sno=msno
PACK
USE groups INDEX groups
DELETE FOR sno=msno
PACK
@ 21,0 SAY "      "
ENDIF #=0
ENDIF !(msure)= 'N'
ENDIF !(msure)= 'Y'

CASE mcmd = '3'
*      * display on console or print one line
*      * discription of all tasks in data base
SELECT PRIMARY
GOTO TOP
IF #=0
STORE "There are NO projects in the Data Base" TO mnote
@ 21,20 GET mnote
CLEAR GETS
STORE 1 TO mark
DO WHILE mark<100
STORE mark+1 TO mark
ENDDO WHILE mark<100
ELSE
STORE 'Y' TO mnew
@ 21,5 SAY "      "
@ 21,20 SAY " Do you want print-outs? " GET mnew PICTURE '!'
READ
CLEAR GETS

IF !(mnew)= 'Y'
SET FORMAT TO PRINT
STORE 60 TO row
DO WHILE (.NOT. EOF )
@ 2,10 SAY "Schedule Numbers Currently In Project DataBase"
@ 4,0 SAY "Sch. No.  Battalion      Title

```

```

Location      "
@ 5,0 SAY "=====
=====
STORE 7 TO row2
DO WHILE (row2<=row).AND.(.NOT.EOF)
  @ row2,1 SAY sno
  @ row2,13 SAY bn
  @ row2,23 SAY title
  @ row2,49 SAY loc
  STORE row2+2 TO row2
  SKIP
ENDDO WHILE (row2<=row).AND.(.NOT.EOF)
EJECT
ENDDO WHILE (.NOT. EOF )
EJECT
SET FORMAT TO SCREEN
@ 21,20 SAY "
"

ELSE
  IF !(mnew)= 'N'
    SET FORMAT TO SCREEN
    STORE 21 TO row
    STORE 0 TO mstop
    STORE 'Y' TO mok
    DO WHILE (.NOT. EOF ).AND.(mstop=0)
      ERASE
@ 1,15 SAY "Schedule Numbers Currently In Project DataBase"
@ 3,5 SAY "Sch. No.  Battalion      Title
Location      "
@ 4,5 SAY "=====
=====
STORE 6 TO row2
DO WHILE (row2<=row).AND.(.NOT.EOF)
  @ row2,6 SAY sno
  @ row2,18 SAY bn
  @ row2,28 SAY title
  @ row2,54 SAY loc
  STORE row2+2 TO row2
  SKIP
ENDDO WHILE (row2<=row).AND.(.NOT.EOF)

  @ 23,15 SAY "Do you wish to continue? " GET mok
  READ
  CLEAR GETS
  IF mok<>'Y'
    STORE 1 TO mstop
    LOOP
  ENDIF
  @ 23,0
ENDDO WHILE (.NOT. EOF )
@ 21,0
ENDIF !(mnew)= 'N'

```

```

        ENDIF !(mnew)= 'Y'
    ENDIF #=0

CASE mcmd= '4'
    *      * submenu for selective display/print of projects
    *****
    DO pdfmnu2
    *****

CASE mcmd= '5'
    *      * set default TDY rates
    @ 21,0 SAY "
    SELECT SECONDARY
    USE misc
    GOTO 1
    @ 14,40 GET goff PICTURE '99.99'
    @ 14,50 GET gnco PICTURE '99.99'
    @ 14,59 GET gem PICTURE '99.99'
    READ
    CLEAR GETS

CASE mcmd= '6'
    *      * exit program with option to backup to B drive
    STORE 'Y' TO mbak
    @ 21,0 SAY "
    @ 21,10 SAY "Do you want to backup the project database to B drive?
(y/n)" GET mbak PICTURE '!'
    READ
    IF !(mbak)= 'Y'
        ERASE
        @ 10,0
        ? "WAIT.. COPYING PROJECT DATA TO B DRIVE"
        ?
        ?
        ?
        ?
        SELECT PRIMARY
        USE
        SELECT SECONDARY
        USE
        USE pdf
        COPY STRUCTURE TO b:pdf
        USE b:pdf
        INDEX ON sno TO b:pdf
        SET INDEX TO b:pdf
        APPEND FROM a:pdf
        USE ps
        COPY STRUCTURE TO b:ps
        USE b:ps
        INDEX ON sno TO b:ps
        SET INDEX TO b:ps

```

```
APPEND FROM a:ps
USE
ERASE
RETURN
ENDIF !(mbak)= 'Y'
ERASE
RETURN
```

```
ENDCASE
```

```
ENDDO WHILE mcmd<> '6'
*
*      * END PDFMNU.CMD
*
```

```

*****
*
*
*           A - C - M - S  Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: PDFMNU2.CMD
*
*   DESCRIPTION: Submenu implementing function 4 on main menu of Project
*                 Data Base.  Provides for selective task data reports
*                 based on task number, funding type, battalion, or
*                 for a single task.  The structure is a simple DO CASE.
*
*   CALLS: LISTPDF.CMD, PPDF.CMD, SPPDF.CMD, returns to PDFMNU.CMD
*
*****

```

```

SET DELETE ON
DO WHILE mcmd<> '5'
  STORE '1' TO mcmd
  ERASE
  @ 2,10 SAY "*****"
  @ 3,10 SAY "*           DISPLAY/PRINT DATA FOR SELECTED TASK          *"
  @ 4,10 SAY "*****"
  @ 5,10 SAY "*"
  @ 6,10 SAY "*"
  @ 7,10 SAY "* <1> All Tasks of a PN Number                               *"
  @ 8,10 SAY "*"
  @ 9,10 SAY "* <2> All Tasks of a Funding Type                             *"
  @ 10,10 SAY "*"
  @ 11,10 SAY "* <3> All Tasks of a Battalion                               *"
  @ 12,10 SAY "*"
  @ 13,10 SAY "* <4> For a Schedule Number                                   *"
  @ 14,10 SAY "*"
  @ 15,10 SAY "* <5> Return to Main Menu                                   *"
  @ 16,10 SAY "*"
  @ 17,10 SAY "*"
  @ 18,10 SAY "*****"

  *   * set up for display of task types
  STORE "MCA" TO mpjtype1
  STORE "MMCA" TO mpjtype2
  STORE "OMA" TO mpjtype3
  STORE "MM&R" TO mpjtype4
  STORE "ComAsst" TO mpjtype5
  STORE "DisRelief" TO mpjtype6
  STORE "SelfHelp" TO mpjtype7
  STORE "NOT SPECIFIED" TO mpjtype0
  *   * get user's choice
  @ 20,10 SAY "OPTION? "

```

```

@ 20,17 GET mcmd PICTURE '9'
READ
CLEAR GETS
*      * all task data is in pdf.dbf (except allocated funds in ps.dbf)
SELECT PRIMARY
USE pdf INDEX pdf

DO CASE

CASE mcmd= '1'
*      * display or print task data for all
*      * tasks funded on a directive number
STORE 'XXXXXXXXXXXXXXXX' TO mdirno
@ 20,5 SAY " "
@ 20,10 SAY "Enter PN Number: " GET mdirno PICTURE "XXXXXXXXXXXXXXXX"
READ
CLEAR GETS
*      * create temp data base of schedule numbers for report
COPY TO tpdf FIELD sno FOR pno=mdirno
*****
DO listpdf
*****

CASE mcmd= '2'
*      * display or print task data for all
*      * task of a funding type
*      * display the funding types on the screen
@ 7,64 SAY "Funding Types"
@ 8,64 SAY "1) MCA"
@ 9,64 SAY "2) MMCA"
@ 10,64 SAY "3) OMA"
@ 11,64 SAY "4) MM&R"
@ 12,64 SAY "5) ComAsst"
@ 13,64 SAY "6) DisRelief"
@ 14,64 SAY "7) SelfHelp"
@ 15,64 SAY "0) UNSPECIFIED"

STORE '1' TO mpjtype
@ 20,5 SAY " "
@ 20,10 SAY "Enter Funding Type " GET mpjtype PICTURE '9'
READ
CLEAR GETS
DO WHILE mpjtype> '7' .OR.mpjtype< '0'
@ 20,10 SAY "Enter Funding Type " GET mpjtype PICTURE '9'
READ
CLEAR GETS
ENDDO WHILE mpjtype> '7' .OR.mpjtype< '0'
*      * create temp data base
COPY FIELD sno TO tpdf FOR pjtype=mpjtype
*****
DO listpdf
*****

```

```

CASE mcmd= '3'
*      * display or print task data
*      * for all tasks of a battalion
STORE '0000' TO mbn
@ 20,5 SAY " "
@ 20,10 SAY "Enter Battalion " GET mbn PICTURE '9999'
READ
CLEAR GETS
* create temp data base
COPY FIELD sno TO tpdf FOR bn=mbn
*****
DO listpdf
*****

CASE mcmd= '4'
*      * display or print task data
*      * for a task ( selected by schedule number)
STORE 'XXXXXX' TO msno
USE pdf INDEX pdf
@ 20,5 SAY " "
@ 20,10 SAY "Enter Schedule No. " GET msno PICTURE "XXXXXX"
READ
CLEAR GETS

FIND '&msno'
IF #=0
  @ 20,10 GET msno
  CLEAR GETS
  @ 20,16 SAY " is NOT in Project Data Base."
  STORE "Press any key to continue" TO mnote
  @ 22,10 GET mnote
  CLEAR GETS
  SET CONSOLE OFF
  WAIT
  SET CONSOLE ON
ELSE
  STORE 'Y' TO mnew
  @ 21,15 SAY "Do you want a print-out? " GET mnew PICTURE '!'
  READ
  CLEAR GETS
  IF !(mnew)= 'Y'
    SET FORMAT TO PRINT
    *****
    DO ppdf
    *****
    EJECT
    SET FORMAT TO SCREEN
  ELSE
    IF !(mnew)= 'N'
      *****
      DO sppdf

```

```
*****
      ENDIF !(mnew)= 'N'
      ENDIF !(mnew)= 'Y'
      ENDIF #=0

      CASE mcmd= '5'
      *      * return to PDFMNU.CMD
      RETURN

      ENDCASE

      ENDDO WHILE !(mcmd)<> '5'
      *
      *      * END PDFMNU2.CMD
      *
```

*

*

*

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PROGRAM: PPDF.CMD

*

*

DESCRIPTION: Subroutine to print Project Data Form on line printer.
Called by PDFMNU2.CMD to print one Project Data Form,
or by LISTPDF.CMD for functions 1 through 3 Project Data
Base report generation submenu.

*

*

*

CALLS: called by PDFMNU2.CMD or LISTPDF.CMD

*

STORE 'JANFEBMARAPR MAYJUNJUL AUGSEP OCTNOVDEC' TO year

SET MARGIN TO 6

@ 1,15 SAY "***** T A S K ***** D A T A *****"

@ 2, 0 SAY "PN Number:"

@ 2,13 SAY pno

@ 2,38 SAY "Schedule Number:"

@ 2,55 SAY sno

STORE sno TO msno

@ 3, 0 SAY "Title:"

@ 3, 7 SAY title

@ 3,38 SAY "Loc.:"

@ 3,44 SAY loc

@ 4, 0 SAY "Battalion:"

@ 4,11 SAY bn

@ 4,38 SAY "Project Type:"

STORE pjtype TO pj

@ 4,53 SAY mpjtype&pj

@ 5, 0 SAY "Esti. Contractor Cost :"

@ 5,26 SAY ecost

@ 6, 0 SAY "Esti. Troop Const. Cost:"

@ 6,26 SAY etcost

store sdate to mdate

* * routine to convert mmddyy to military date: dd MMM yy

store \$(mdate,1,2) to mnth

store \$(mdate,3,2)+' '+\$(year,(val(mnth)*3-2),3)+' '+\$(mdate,5,2) to ms

@ 7, 0 SAY "Start Date : "+"&ms"

store cdate to mdate

store \$(mdate,1,2) to mnth

store \$(mdate,3,2)+' '+\$(year,(val(mnth)*3-2),3)+' '+\$(mdate,5,2) to mc

@ 8, 0 SAY "Compl. Date : "+"&mc"

@ 9, 0 SAY "Customer:"

```
@ 9,10 SAY customer
SELECT SECONDARY
USE ps INDEX ps
FIND '&msno'
```

```
*      * allocated funds
```

```
STORE ac1 TO mac1
STORE ac2 TO mac2
STORE ac3 TO mac3
STORE ac4 TO mac4
STORE ac5 TO mac5
```

```
*      * expended funds
```

```
STORE ec1 TO mec1
STORE ec2 TO mec2
STORE ec3 TO mec3
STORE ec4 TO mec4
STORE ec5 TO mec5
```

```
SELECT PRIMARY
```

```
FIND '&msno'
```

```
@ 11, 0 SAY "+-----+-----+-----+-----+"
@ 12, 0 SAY "| TYPES OF | ESTIMATED | ALLOCATED | ACTUAL |"
@ 13, 0 SAY "| FUNDS      | COST      | FUNDS     | EXPENDED|"
@ 14, 0 SAY "+-----+-----+-----+-----+"
@ 15, 0 SAY "| US TDY    |          |          |         |"
@ 15,17 SAY esc1
@ 15,31 SAY "|          |          |          |         |"
@ 15,33 SAY mac1
@ 15,47 SAY "|          |          |          |         |"
@ 15,50 say mec1
@ 15,62 say "|          |          |          |         |"
@ 16, 0 SAY "+-----+-----+-----+-----+"
@ 17, 0 SAY "| US EQUIP  |          |          |         |"
@ 17,17 SAY esc2
@ 17,31 SAY "|          |          |          |         |"
@ 17,33 SAY mac2
@ 17,47 SAY "|          |          |          |         |"
@ 17,50 SAY mec2
@ 17,62 say "|          |          |          |         |"
@ 18, 0 SAY "+-----+-----+-----+-----+"
@ 19, 0 SAY "| CSG TDY   |          |          |         |"
@ 19,17 SAY esc3
@ 19,31 SAY "|          |          |          |         |"
@ 19,33 SAY mac3
@ 19,47 SAY "|          |          |          |         |"
@ 19,50 say mec3
@ 19,62 say "|          |          |          |         |"
@ 20, 0 SAY "+-----+-----+-----+-----+"
@ 21, 0 SAY "| CSG EQUIP |          |          |         |"
@ 21,17 SAY esc4
@ 21,31 SAY "|          |          |          |         |"
@ 21,33 SAY mac4
@ 21,47 SAY "|          |          |          |         |"
@ 21,50 say mec4
```

```

@ 21,62 say "|"
@ 22, 0 SAY "+-----+"
@ 23, 0 SAY "|   CSG LABOR   |"
@ 23,17 SAY esc5
@ 23,31 SAY "|"
@ 23,33 SAY mac5
@ 23,47 SAY "|"
@ 23,50 say mec5
@ 23,62 say "|"
@ 24, 0 SAY "+-----+"
@ 25, 0 SAY "|   TOTAL   |"
STORE mac1+mac2+mac3+mac4+mac5 TO mac
STORE esc1+esc2+esc3+esc4+esc5 TO mesc
STORE mec1+mec2+mec3+mec4+mec5 TO mec
@ 25,17 SAY mesc
@ 25,31 SAY "|"
@ 25,33 SAY mac
@ 25,47 SAY "|"
@ 25,50 say mec
@ 25,62 say "|"
@ 26, 0 SAY "+-----+"
@ 30, 0 SAY "COMMENTS:"
@ 30,10 SAY $(comments,1,40)
@ 32,10 SAY $(comments,41,29)
EJECT
*      * return to PDFMNU2.CMD or LISTPDF.CMD
RETURN
*
*      * END PPDF.CMD
*
```



```
USE wmandays INDEX wmandays
APPEND FROM wmdaysa
APPEND FROM wmdaysb
USE wact INDEX wact
APPEND FROM wacta
APPEND FROM wactb
USE a:weq INDEX weq
APPEND FROM weqa
APPEND FROM weqb
* reset (clear) working databases for next week's input
* create temporary data bases: tw*a.dbf and tw*b.dbf
*
USE wpra
COPY STRUCTURE TO twpra
COPY STRUCTURE TO twprb
USE twpra
INDEX ON sno+week TO wpra
USE twprb
INDEX ON sno+week TO wprb
*
USE wmdaysa
COPY STRUCTURE TO twmdaysa
COPY STRUCTURE TO twmdaysb
USE twmdaysa
INDEX ON sno+week TO wmdaysa
USE twmdaysb
INDEX ON sno+week TO wmdaysb
*
USE wacta
COPY STRUCTURE TO twacta
COPY STRUCTURE TO twactb
USE twacta
INDEX ON sno+week+STR(i,4,0)+STR(j,4,0) TO wacta
USE twactb
INDEX ON sno+week+STR(i,4,0)+STR(j,4,0) TO wactb
*
USE weqa
COPY STRUCTURE TO tweqa
COPY STRUCTURE TO tweqb
USE tweqa
INDEX ON sno+week TO weqa
USE tweqb
INDEX ON sno+week TO weqb
USE
* delete old w*a.dbf files
DELETE FILE wpra.dbf
DELETE FILE wmdaysa.dbf
DELETE FILE wacta.dbf
DELETE FILE weqa.dbf
* rename empty temp files for next week
RENAME twpra TO wpra
RENAME twmdaysa TO wmdaysa
```

```

RENAME twacta TO wacta
RENAME tweqa TO weqa
*delete old w*b.dbf files
DELETE FILE wprb.dbf
DELETE FILE wmdaysb.dbf
DELETE FILE wactb.dbf
DELETE FILE weqb.dbf
* rename temp files
RENAME twprb TO wprb
RENAME twmdaysb TO wmdaysb
RENAME twactb TO wactb
RENAME tweqb TO weqb
* * * * * MAIN PROCESSING ROUTINE * * * * *
ERASE
USE misc
* get graff tdy rates
STORE goff TO goff
STORE gnco TO gnco
STORE gem TO gem
* get date of last processing
STORE date TO mdate
@ 1,0 SAY '                                PROCESS WEEKLY PROGRESS REPORTS'
USE days INDEX days
* days contains fridays
FIND '&mdate'
* get this week
SKIP +1
STORE day TO mdate
STORE mdate TO mdatel
STORE "N" TO msure
* give user option to process for any period
DO WHILE !(msure)<> "Y"
  @ 4,0 SAY "Enter date of the period end(Wednesday): " GET mdate
  @ 5,0 SAY '      or press RETURN if correct'
  READ
  CLEAR GETS
  IF mdate<>mdatel
    FIND '&mdate'
    IF #=0
      @ 6,0 SAY 'Period Ending date must be Wednesday.  Enter again.'
      STORE mdatel TO mdate
    ELSE
      @ 5,0
      @ 6,0
      @ 6,0 SAY "Sure? (y/n) " GET msure PICTURE '!'
      READ
      CLEAR GETS
    ENDIF #=0
  ELSE
    STORE "Y" TO msure
  ENDIF mdate<>mdatel
ENDDO WHILE !(msure)<> "Y"

```

```

USE misc
* store processing date for next time
REPLACE date WITH mdate
SELECT PRIMARY
USE ps INDEX ps
SELECT SECOND
USE wpr INDEX wpr
@ 12,0
@ 12,30 SAY rv  +'PROCESSING'+ rvoff

DO WHILE .not.EOF
  STORE s.sno TO msno
  STORE # TO rec
  SELECT PRIMARY
  FIND "&msno"
  IF p.date>=mdate
    SELECT SECOND
    FIND "&msno"
    DO WHILE (s.sno=msno).AND.(.not.EOF)
      SKIP +1
    ENDDO WHILE (s.sno=msno).AND.(.not.EOF)
    LOOP
  ELSE
    SELECT SECOND
    FIND "&msno"
    * skip previously processsed wprs
    DO WHILE (s.sno=msno).AND.(week<=p.date).AND.(.not.EOF)
      SKIP +1
    ENDDO WHILE (s.sno=msno).AND.(week<=p.date).AN
    * this loop processes all wpr ' s up to the desired date.
    DO WHILE (s.sno=msno).AND.(s.week>p.date).AND.(s.week<=mdate)
      @ 14,20 SAY "      Schedule No.:" GET msno
      CLEAR GETS
      STORE sno+week TO msnoweek
      SELECT PRIMARY
      REPLACE p.date WITH s.week NOUPDATE
      REPLACE p.cws WITH s.cws NOUPDATE
      REPLACE p.adjust WITH s.adjust NOUPDATE
      REPLACE ec5 WITH ec5+s.csaglbr NOUPDATE
      REPLACE ec4 WITH ec4+s.csgeq NOUPDATE
      REPLACE ec3 WITH ec3+s.csqty NOUPDATE
      REPLACE ec1 WITH ec1+s.other NOUPDATE
      REPLACE ec2 WITH ec2+s.rental+s.trans NOUPDATE
      *-----
      *      * processing mandays data
      *-----
      SELECT SECOND
      USE pdf INDEX pdf
      FIND "&msno"
      IF !(graf)= "N"
        *      * for non-graf projects, find the particular tdy rates

```

```

STORE OFF TO ngoff
STORE nco TO ngnco
STORE em TO ngem
USE wmandays INDEX wmandays
FIND "&msnoweek"
SELECT PRIMARY
* primary is ps
REPLACE ecl WITH
ecl+s.ocharge*ngoff+s.ncharge*ngnco+s.echarge*ngem
ELSE
USE wmandays INDEX wmandays
FIND "&msnoweek"
SELECT PRIMARY
REPLACE ecl WITH ecl+s.ocharge*goff+s.ncharge*gnco+s.echarge*gem
NOUPDATE
ENDIF !(graf)= "N"
*-----
*           * processing equipment data
*-----
SELECT PRIMARY
USE eqcost INDEX eqcost
SELECT SECOND
USE weq INDEX weq
FIND "&msnoweek"
*           * use useqcost to store us equip cost.
STORE 0 TO useqcost
STORE 0 TO csceqcost
* loop through all the weq records of this wpr
DO WHILE (s.sno+s.week=msnoweek).AND.(.NOT.EOF)
  STORE "1" TO no
  * looping through all 4 equip items in one weq record
  DO WHILE no<= "4"
    IF s.eno&no<>0
      IF s.type&no= "0"
        STORE str(&no+1,1,0) TO no
        LOOP
      ENDIF
      STORE str(s.eno&no,4,0)+str(s.atchno&no,2,0) TO mkey
      SELECT PRIMARY
      FIND "&mkey"
      IF s.type&no='U'
        STORE p.omcost*s.hr&no +useqcost TO useqcost
      ELSE
        STORE p.omcost*s.hr&no+csceqcost TO csceqcost
      ENDIF
    ENDIF s.eno&no<>0
    STORE str(&no+1,1,0) TO no
  ENDDO WHILE no<= "4"
  SELECT SECOND
  SKIP +1
ENDDO WHILE (sno+week=msnoweek).AND.(.not.EOF)
*-----

```



```

*      * processing activity data
*-----
STORE 0 TO new:per, new:amh, new:smh
SELECT SECOND
USE wact INDEX wact
FIND '&msnoweek'
IF #<>0
SELECT PRIMARY
USE act INDEX act
FIND '&msno'
DO WHILE (p.sno=msno).AND.(.NOT.EOF)
  STORE msnoweek+STR(p.i,4,0)+STR(p.j,4,0) TO mij
  SELECT SECOND
  FIND '&mij'
  IF (#<>0).AND.(s.amh<>0).AND.(s.per<>0)
  SELECT PRIMARY
  REPLACE p.amh WITH p.amh+s.amh NOUPDATE
  REPLACE p.per WITH s.per NOUPDATE
  ENDIF
  SELECT PRIMARY
  STORE p.smh+new:smh TO new:smh
  STORE p.amh+new:amh TO new:amh
  STORE p.smh*p.per+new:per TO new:per
  SKIP +1
ENDDO
STORE (new:per/new:smh) TO new:per
ENDIF
*-----
*      * update mandays master
*-----
SELECT SECOND
USE wmandays INDEX wmandays
FIND "&msnoweek"
SELECT PRIMARY
USE mandays INDEX mandays
FIND "&msno"
REPLACE p.osupport WITH p.osupport+s.osupport NOUP
REPLACE p.nsupport WITH p.nsupport+s.nsupport NOUP
REPLACE p.esupport WITH p.esupport+s.esupport NOUP
REPLACE p.ocharge WITH p.ocharge+s.ocharge NOUP
REPLACE p.owork WITH p.owork+s.owork NOUP
REPLACE p.ncharge WITH p.ncharge+s.ncharge NOUP
REPLACE p.nwork WITH p.nwork+s.nwork NOUP
REPLACE p.echarge WITH p.echarge+s.echarge NOUP
REPLACE p.ework WITH p.ework+s.ework NOUP
REPLACE p.olost WITH p.olost+s.olost NOUP
REPLACE p.mlost WITH p.mlost+s.mlost NOUP
REPLACE p.wlost WITH p.wlost+s.wlost NOUP
*-----
*      * accumulate useq cost,csceq cost and per comp
*-----
SELECT PRIMARY

```

```
USE ps INDEX ps
FIND "&msno"
REPLACE p.ec2 WITH ec2+useqcost NOUP
REPLACE p.ec4 WITH ec4+csceqcost NOUP
IF new:per > 0
REPLACE p.actper WITH new:per NOUP
ENDIF
IF new:amh > 0
REPLACE p.amh WITH new:amh NOUP
ENDIF
IF new:smh > 0
REPLACE p.smh WITH new:smh NOUP
ENDIF
RELEASE new:per,new:amh,new:smh
* get next wpr to process
SELECT SECOND
USE wpr INDEX wpr
FIND "&msno"
DO WHILE (sno=msno).AND.(week<=p.date).AND.(.not.EOF)
  SKIP 1
  ENDDO WHILE (sno=msno).AND.(week<=p.date).AND.
  ENDDO WHILE (s.sno=msno).AND.(s.week>p.date).a
ENDIF p.date>=mdate
*      * make sure program does not get hung in loop
SELECT SECONDARY
IF #=rec
  SKIP +1
ENDIF
ENDDO WHILE .not.EOF

ERASE
QUIT
*
*      * END PS.CMD
*
```

*

*

*

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*

*

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*

PROGRAM: PSR.CMD

*

*

DESCRIPTION: This routine provides for selective generation of Project Status Reports. Reports may be generated by Project Clusters, Groups, or for a single task. The program gets the user's selection and creates a temporary data base of schedule numbers for the reports to be generated, then loops through calling PSR.CMD to print.

*

*

CALLS: PSR.CMD to print report

*

SET TALK OFF

SET COLON OFF

SET DELETE ON

ERASE

* * get printer/console control codes

RESTORE FROM install ADDITIVE

* * set up memory variables

STORE 0 TO mcno

STORE 0 TO mgno

STORE 0 TO mxno

STORE "Y" TO ALL

STORE 'Y' TO ftpeo

STORE 'JANFEBMARAPRMAYJUNJULAUAGSEPOCTNOVDEC' to year

USE misc

* * get date of last processing

STORE date TO mdate

@ 1,0 SAY " PROJECT STATUS REPORT"

@ 3,0 SAY "Period Ending: " GET mdate PICTURE "999999"

CLEAR GETS

@ 4,0 SAY "Print Reports for JUST those projects processed on ABOVE date?

(y/n) " ;

GET ftpeo PICTURE "!"

* * 'ftpeo' means 'For This Period End Only'

READ

CLEAR GETS

IF !(ftpeo)<>'Y'

@ 4,0 SAY "All projects selected below (incl. those NOT active this week) will be printed."

ENDIF

@ 6,0 SAY "Do you want to print out status reports for ALL the following

```

clusters: (y/n) " ;
GET all PICTURE "!"
USE clusters INDEX clusters
GOTO TOP
*      * display clusters for user selection
DO WHILE .NOT.EOF
  @ cno+7,2 SAY cno
  @ cno+7,3 SAY '>'
  @ cno+7,5 SAY cname
  SKIP
ENDDO WHILE .NOT.EOF
READ
CLEAR GETS

IF !(ALL)<> 'Y'
  @ cno+9,7 SAY "which cluster? " GET mcno PICTURE "9"
  @ cno+10,7 SAY " 0=EXIT"
  READ
  CLEAR GETS
  IF mcno=0
    RETURN
  ENDIF mcno=0
  STORE str(mcno,1,0) TO mkey
  FIND "&mkey"
  STORE cname TO mcna
  USE groups INDEX groups
  FIND "&mkey"
  IF #=0
    ? "          NO Groups in Cluster"
    ? "          Returning to Menu"
    *      * delay to give user time to read message
    STORE 1 TO count
    DO WHILE count<150
      STORE count+1 TO count
    ENDDO WHILE count<150
    RETURN
  ENDIF #=0

*      * next phase of report generation
*      * display groups for user selection
ERASE
@ 1,0 SAY "          PROJECT STATUS REPORT"
@ 3,0 SAY "Do you want reports for ALL the following groups "
@ 4,0 SAY "within this cluster? (y/n)" GET ALL PICTURE "!"
@ 6,17 SAY mcna
DO WHILE (.NOT.EOF).AND.cno=mcno
  @ gno+6,1 SAY gno
  @ gno+6,3 SAY ">"
  @ gno+6,5 SAY gname
  SKIP
ENDDO WHILE (.NOT.EOF).AND.cno=mcno
READ

```

```

CLEAR GETS

IF !(ALL)<> "Y"
  SKIP -1
  @ gno+8,7 SAY "which group? " GET mgno PICTURE '99'
  @ gno+9,7 SAY "    0=EXIT    "
  READ
  CLEAR GETS
  IF mgno=0
    RETURN
  ENDIF mgno=0

  STORE str(mcno,1,0)+str(mgno,2,0) TO mkey2
  FIND '&mkey2'
  STORE gname TO mgna
  USE schedules INDEX schedules

  FIND '&mkey2'
  IF #=0
    ? "                      NO Schedule Numbers "
    ? "                      Returning to Menu"
    STORE 1 TO count
    DO WHILE count<150
      STORE count+1 TO count
    ENDDO WHILE count<150
    RETURN
  ENDIF #=0

  *          * final phase: display schedule numbers for user selection
  ERASE
  @ 1,0 SAY "                      PROJECT STATUS REPORT"
  @ 3,0 SAY "Do you want Project Status Reports for ALL the following
schedules "
  @ 4,0 SAY "within this group? (y/n)" GET ALL PICTURE '!'
  @ 6,24 SAY mgna
  DO WHILE (.NOT.EOF).AND.cno=mcno.AND.gno=mgno
    IF xno<15
      @ xno+6,1 SAY str(xno,2,0)+ '> ' +sno
    ELSE
      IF xno<29.AND.xno>=15
        @ xno-8,16 SAY str(xno,2,0)+ '> ' +sno
      ELSE
        IF xno<42.AND.xno>=29
          @ xno-22,31 SAY str(xno,2,0)+ '> ' +sno
        ELSE
          IF xno<56.AND.xno>=42
            @ xno-34,46 SAY str(xno,2,0)+ '> ' +sno
          ENDIF xno<56.AND.xno>=42
        ENDIF xno<42.AND.xno>=29
      ENDIF xno<29.AND.xno>=15
    ENDIF xno<15
  SKIP 1

```

```

ENDDO WHILE (.NOT.EOF).AND.cno=mcno.AND.gno=mgno
READ
CLEAR GETS

IF !(ALL)<> "Y"
  @ 22,27 SAY "which schedule? " GET mxno PICTURE '99'
  @ 23,27 SAY "    0=EXIT    "
  READ
  CLEAR GETS
  IF mxno=0
    RETURN
  ENDIF mxno=0

  STORE str(mcno,1,0)+str(mgno,2,0)+str(mxno,2,0) TO mkey3
  FIND '&mkey3'
  IF #=0
    ? "                      NO  Such Schedule Number  "
    ? "                      Returning to Menu"
    STORE 1 TO count
    DO WHILE count<150
      STORE count+1 TO count
    ENDDO WHILE count<150
    RETURN
  ENDIF #=0
  *      * create temporary data base - tsno.dbf of schedule numbers
  COPY TO tsno FOR (cno=mcno).AND.(gno=mgno).AND.(xno=mxno) FIELD sno
ELSE
  COPY TO tsno FOR (cno=mcno).AND.(gno=mgno) FIELD sno
ENDIF !(ALL)<> "Y"
ELSE
  USE schedules INDEX schedules
  COPY TO tsno FOR cno=mcno FIELD sno
ENDIF !(ALL)<> "Y"
ELSE
  USE schedules INDEX schedules
  COPY TO tsno FIELD sno
ENDIF !(ALL)<> 'Y'

@ 23,30 SAY rv+ 'PROCESSING' +rvoff

SELECT PRIMARY
USE ps INDEX ps
SELECT second
USE tsno
GOTO TOP
*      * go through all schedule numbers in tsno.dbf
*      * calling PSR.CMD to print Project Status Report
DO WHILE .NOT.EOF
  STORE sno TO msno
  SELECT PRIMARY
  USE ps INDEX ps
  FIND "&msno"

```

```
IF (!(ftpeo <> 'Y' ).OR.(date>=mdate)

    *****
    DO psrpt
    *****

ENDIF (ftpeo <> 'Y' ).OR.(date>=mdate)
SELECT SECONDARY
USE tsno
LOCATE NEXT 5000 FOR sno=msno
SKIP +1
DO WHILE s.sno=msno.AND.(.NOT.EOF)
    SKIP +1
ENDDO
ENDDO WHILE .NOT.EOF
ERASE
RETURN
*
*
* *      END PSRPT.CMD
*
```

*

*

*

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*

USA-CERL

*

PROGRAM: PSRPT.CMD

*

*

DESCRIPTION: Prints Project Status Report. This report is at the task (schedule number) level and a copy should go to the project officer. The report prints scheduled and actual percent complete, cumulative and period mandays worked, and allocated and expended funds, and lists all equipment reported as used on the task for that period.

*

*

CALLS: called by PSRPT.CMD

*

SET FORMAT TO PRINT

SET MARGIN TO 0

* * get printer/console control codes

RESTORE FROM install ADDITIVE

STORE p.date TO mweek

STORE adjust TO madjust

STORE cws TO mcws

STORE actper TO mactper

store \$(mweek,1,2) to mnth

store \$(mweek,3,2)+' '+\$(year,(val(mnth)*3-2),3)+' '+\$(mweek,5,2) to mweek2

SELECT PRIMARY

USE pdf INDEX pdf

FIND '&msno'

STORE loc TO mloc

STORE sdate TO msdate

store \$(msdate,1,2) to mnth

store \$(msdate,3,2)+' '+\$(year,(val(mnth)*3-2),3)+' '+\$(msdate,5,2) to msdate

STORE cdate TO mcdate

store \$(mcdate,1,2) to mnth

store \$(mcdate,3,2)+' '+\$(year,(val(mnth)*3-2),3)+' '+\$(mcdate,5,2) to mcdate

STORE title TO mtitle

STORE bn+ "/" +co+ "/" +STR(plt,1,0) to munit

SELECT PRIMARY

USE a:mandays INDEX a:mandays

FIND '&msno'

* * get mandays for this reporting period

SELECT SECONDARY

USE a:wmandays INDEX a:wmandays

FIND '&msno&mweek'

SET MARGIN TO 10

@ 1,0 SAY pl0

@ 1,9 SAY dw+"PROJECT STATUS REPORT"+pl7
 @ 3, 0 SAY "Section I: Project Identification
 Period:"

For

@ 3,69 SAY mweek2
 @ 5, 0 SAY "(1) Task Number :"
 @ 5,20 SAY msno
 @ 5,57 SAY "(2) Bn/Co/Plt:"
 @ 5,72 SAY munit
 @ 6, 0 SAY "(3) Title:"
 @ 6,11 SAY mttitle
 @ 6,57 SAY "(4) Location :"
 @ 6,72 SAY mloc
 @ 7, 0 SAY "(5) Start Date:"
 @ 7,16 SAY msdate
 @ 7,57 SAY "(5) Completion Date:"
 @ 7,78 SAY mcdate
 @ 8, 0 SAY "(7) Number of days ahead(+) or behind(-):"
 @ 8,42 SAY madjust USING '999'
 @ 9, 0 SAY "(8) Percent Scheduled complete from CWS :"
 @ 9,42 SAY mcws USING '999.9%'
 @ 10, 4 SAY "Percent Actual complete :"
 @ 10,42 SAY mactper USING '999.9%'
 @ 13, 0 SAY "Section II: Personnel Use Period/To Date"
 @ 15, 0 SAY "+-----"

CONSTRUCTION		SUPPORT		DIRECT	
@ 16, 0 SAY "					
@ 17, 0 SAY "					
@ 18, 0 SAY "					
(12)		(9)		(10)	(11)
@ 19, 0 SAY "					
TDY		TDY MANDAYS NOT		TDY MANDAYS	MANDAYS
MANDAYS					
@ 20, 0 SAY "					
RATE		CHARGED TO JOB		CHARGED	WORKED
LOST					
@ 21, 0 SAY "					
DUE TO				TO JOB	ON SITE
@ 22, 0 SAY "					
@ 23, 0 SAY "					
Period		To Date		Period	To Date
Peroid		To Date		Period	To Date
@ 24, 0 SAY "					
@ 25, 0 SAY "					
OFF					
Weath					
@ 26, 0 SAY "					
@ 26, 8 SAY s.osupport					
@ 26,16 SAY "					
@ 26,17 SAY p.osupport					
@ 26,25 SAY "					
@ 26,28 SAY s.ocharge					
@ 26,36 SAY "					


```

|
@ 51, 0 SAY "| CSC TDY |"
@ 51,20 SAY ac3
@ 51,36 SAY ""
@ 51,38 SAY ec3
@ 51,54 SAY ""
@ 51,56 SAY ac3-ec3
@ 51,72 SAY ""
IF ac3<>0
  @ 51,77 SAY 100*ec3/ac3 USING "999.99%"
ELSE
  @ 51,78 SAY "N/A"
ENDIF
@ 51,91 SAY ""
@ 52, 0 SAY "-----"
|
@ 53, 0 SAY "|
|
| CSC EQUIPMENT |"
@ 54, 0 SAY "|
@ 54,20 SAY ac4
@ 54,36 SAY ""
@ 54,38 SAY ec4
@ 54,54 SAY ""
@ 54,56 SAY ac4-ec4
@ 54,72 SAY ""
IF ac4<>0
  @ 54,77 SAY 100*ec4/ac4 USING "999.99%"
ELSE
  @ 54,78 SAY "N/A"
ENDIF
@ 54,91 SAY ""
@ 55, 0 SAY "-----"
|
@ 56, 0 SAY "|
|
| CSC LABOR |"
@ 57, 0 SAY "|
@ 57,20 SAY ac5
@ 57,36 SAY ""
@ 57,38 SAY ec5
@ 57,54 SAY ""
@ 57,56 SAY ac5-ec5
@ 57,72 SAY ""
IF ac5<>0
  @ 57,77 SAY 100*ec5/ac5 USING "999.99%"
ELSE
  @ 57,78 SAY "N/A"
ENDIF
@ 57,91 SAY ""
@ 58, 0 SAY "-----"
|
@ 59, 0 SAY "|
|
|"

```

```
@ 60, 0 SAY "|" TOTALS "|"  
@ 60,20 SAY ac1+ac2+ac3+ac4+ac5 USING "9999999.99"  
@ 60,36 SAY ""  
@ 60,38 SAY ec1+ec2+ec3+ec4+ec5 USING "9999999.99"  
@ 60,54 SAY ""  
@ 60,56 SAY ac1+ac2+ac3+ac4+ac5-ec1-ec2-ec3-ec4-ec5 USING "9999999.99"  
@ 60,72 SAY ""  
IF ac1+ac2+ac3+ac4+ac5<>0  
    @ 60,77 SAY 100*(ec1+ec2+ec3+ec4+ec5)/(ac1+ac2+ac3+ac4+ac5) USING "999.99%"  
ELSE  
    @ 60,78 SAY "N/A"  
ENDIF  
@ 60,91 SAY ""  
@ 61, 0 SAY "+-----+-----+-----+-----+-----+-----+";  
-;  
-----+";  
*      * set printer to 12 char/inch  
@ 62, 0 SAY pl2  
EJECT  
*      * print equipment used on the task this period  
SELECT PRIMARY  
USE eqcost INDEX eqcost  
*      * use this week's WPR data  
SELECT SECOND  
USE a:weq INDEX a:weq  
STORE msno+mweek to msnweek  
FIND "&msnweek"  
    IF #=0  
        SET FORMAT TO SCREEN  
        RETURN  
    ENDIF  
    STORE 12 TO row  
    SET MARGIN TO 5  
@ 1,12 SAY "Weekly Equipment Cost Report For Period: &mweek2"  
@ 3, 6 SAY "Task No. :"  
@ 3,17 SAY msno  
@ 3,43 SAY "Title      :"  
@ 3,54 SAY mttitle  
@ 4, 6 SAY "Bn/Co/Plt :"  
@ 4,17 SAY munit  
@ 4,43 SAY "Location   :"  
@ 4,54 SAY mlloc  
@ 6,0 SAY '*****';  
*****'  
@ 8,0 SAY '          DESCRIPTION              ITEM NO.      $/HOUR       HOURS;  
          COST '  
@ 10,0 SAY '-----';  
-----'
```

```
STORE 0 TO mitem
STORE 0 TO mttotal
DO WHILE (sno+week=msnoweek).AND.(.NOT.EOF).AND.#<>0
```

```

STORE "1" TO no
DO WHILE no<= "4"
  IF s.type&no= "0"
    STORE str(&no+1,1,0) TO no
    LOOP
  ENDIF s.type&no= "0"

  IF s.eno&no=0
    STORE str(&no+1,1,0) TO no
    LOOP
  ENDIF s.eno&no=0

  STORE str(s.eno&no,4,0)+str(s.atchno&no,2,0) TO mkey
  SELECT PRIMARY
  FIND "&mkey"
  STORE p.omcost*s.hr&no TO mitem
  @ row,2 SAY p.despl
  @ row,35 SAY p.eno USING '999'
  @ row,38 SAY "."
  @ row,39 SAY p.atchno USING '99'
  @ row,45 SAY p.omcost USING '$999.99'
  @ row,57 SAY s.hr&no USING '9999'
  @ row,65 SAY mitem USING '$9999999.99'
  STORE row+2 TO row
  STORE mitem+mtotal TO mtotal
  STORE str(&no+1,1,0) TO no
ENDDO WHILE no<= "4"
SELECT SECOND
SKIP
ENDDO WHILE (sno+week=msnoweek).AND.(.NOT.EOF)
@ row,0 SAY '-----'
;
-----'
@ row+2,50 SAY mtotal USING 'WEEKLY TOTAL    $99999999.99'
  IF row+2<65
    EJECT
  ENDIF row+2<65

ENDDO WHILE .NOT.EOF
SET FORMAT TO SCREEN

* return to PSR.CMD
RETURN
*
*      * END PSRPT.CMD
*
```

```

*****
*
*
*           A - C - M - S  Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: S3RPT.CMD
*
*   DESCRIPTION: This routine generates the "S-3 Weekly Construction Status
*               Report." This report summarizes construction progress
*               by group and gives schedule number, title, battalion,
*               start date, completion date, percent scheduled, percent
*               actually complete, percent funds expended, and days off
*               critical path. Also computes a weighted average over
*               the group for percent scheduled and percent complete.
*
*   CALLS: None
*
*****
ERASE
SET TALK OFF
SET COLON OFF
SET DELETE ON
*       * get printer/console control codes
RESTORE FROM install ADDITIVE
*       * set up default memory variables
STORE 0 TO mcno
STORE 0 TO mgno
STORE "Y" TO ALL
*       * get last processing date
USE misc
STORE date TO mdate
@ 1,0 SAY "                S-3 WEEKLY CONSTRUCTION STATUS REPORT"
@ 3,6 SAY "For period ending: " GET mdate PICTURE "999999"
CLEAR GETS
@ 5,0 SAY "Do you want to print out ALL the group reports for ALL of the "
@ 6,0 SAY "following clusters: (y/n) " GET ALL PICTURE '!'
*       * display clusters for user selection
USE clusters INDEX clusters
GOTO TOP
DO WHILE .NOT.EOF
    @ cno+7,2 SAY cno
    @ cno+7,3 SAY '>'
    @ cno+7,5 SAY cname
    SKIP
ENDDO WHILE .NOT.EOF
READ
CLEAR GETS

IF !(ALL)<> 'Y'

```

```

@ cno+9,7 SAY "which cluster? " GET mcno PICTURE "9"
@ cno+10,7 SAY "    0=EXIT"
READ
CLEAR GETS
IF mcno=0
    RETURN
ENDIF mcno=0
STORE str(mcno,1,0) TO mkey
FIND "&mkey"
STORE cname TO mcna
USE groups INDEX groups
FIND "&mkey"
IF #=0
    ? "                NO Groups in Cluster"
    ? "                Returning to Menu"
    STORE 1 TO count
    DO WHILE count<150
        STORE count+1 TO count
    ENDDO WHILE count<150
    RETURN
ENDIF #=0
*      * create temporary file for the cluster
USE schedule INDEX schedule
COPY TO tsno FIELD sno,cno,gno FOR cno=mcno
ELSE
    USE schedule INDEX schedule
    COPY TO tsno FIELD sno,cno,gno
ENDIF
USE tsno
*      * get temporary file in cluster and group order
INDEX ON STR(cno,1,0)+STR(gno,2,0) TO tsno
SELECT PRIMARY
USE
USE tsno INDEX tsno
@ 17,0
? ' Set Printer to Top of Form'
? ' Press RETURN when ready'
WAIT
@ 16,0 SAY '
@ 17,0 SAY '
@ 18,0 SAY '
@ 19,0 SAY '
@ 20,0 SAY '
* control codes for tvi 950
@ 23,30 SAY chr(27)+ 'G' + '6' + 'PROCESSING' +chr(27)+ 'G' + '0'

*      * routine to convert mmdyy to military date: dd MMM yy
STORE 'JANFEBMARAPR MAYJUNJULAUGSEPOCTNOVDEC' TO year
STORE $(mdate,1,2) TO mnth
STORE $(mdate,3,2)+ ' ' +$(year,(val(mnth)*3-2),3)+ ' ' +$(mdate,5,2) TO mil
*      * routine to print report
SET FORMAT TO PRINT

```



```
SELECT SECOND
USE pdf INDEX pdf
FIND "&msno"
STORE msno+" "+$(s.title,1,16) TO mtask
USE ps INDEX ps
FIND "&msno"
IF tsmh<>0
    STORE (s.actper*(s.smh/tsmh)) TO mprog
    STORE mprog+tprog TO tprog
    STORE s.amh+tamh TO tamh
ELSE
    STORE 0 TO mprog
ENDIF
@ row, 0 SAY "|"
IF tsmh<>0
@ row, 3 SAY (s.smh/tsmh)*100.0 USING '999.9'
ELSE
@ row, 3 SAY ' 0.0'
ENDIF
@ row, 9 SAY "|"
@ row,12 SAY mprog USING '999.9'
@ row,18 SAY "|"
@ row,20 SAY mtask
@ row,44 SAY "|"
@ row,49 SAY s.smh USING '99,999'
@ row,57 SAY "|"
@ row,62 SAY s.amh USING '99,999'
@ row,70 SAY "|"
@ row,73 SAY s.cws USING '999.9'
@ row,79 SAY "|"
@ row,82 SAY s.actper USING '999.9'
@ row,88 SAY "|"
@ row+1,0 SAY "+-----+
```

```
SELECT PRIMARY  
SKIP +1  
STORE row+2 TO row  
ENDDO WHILE gno=mgno .AND. cno=mchno .AND. (.NOT.EOF)  
@ row,0 SAY "|   100.0 |"  
@ row,12 SAY tprog USING '999.9'  
@ row,18 SAY "|-----|"  
@ row,48 SAY tsmh USING '999,999'  
@ row,57 SAY ""  
@ row,61 SAY tamh USING '999,999'  
@ row,70 SAY "|-----|-----|"  
@ row+1,0 SAY "+-----+"  
+-----+
```

```

EJECT
ENDDO WHILE .NOT.EOF
*      * set printer back to 10 pitch

```

S3RPT.CMD

```
@ 0,0 SAY pl0
SET FORMAT TO SCREEN
USE
*      * delete temporary files
DELETE FILE tsno.dbf
DELETE FILE tsno.ndx
ERASE
RETURN
*
*      * END S3RPT.CMD
*
```

*
*
*
*
*
*
*
*
*
*
*
*
*

A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: SCHEDULE.CMD

DESCRIPTION: Implements last level of Project Reporting Groups
Definition program. Provides for enter, edit, and delete
of schedule numbers in groups. There may be up to 99
schedule numbers in one group. Checking is done
to insure valid entries.

CALLS: called by and returns to GROUPS.CMD

ERASE

SET TALK OFF

SET COLON OFF

SET DELETE ON

SELECT SECOND

USE pdf INDEX pdf

SELECT PRIMARY

USE schedules INDEX schedules

STORE ' ' TO page

STORE "L" TO cmd

DO WHILE !(cmd)<> 'Q'

DO CASE

* * present page 1 for up to 54 schedule numbers

CASE !(cmd)= 'L' .AND.page<> 'L'

STORE 'L' TO page

@ 1,21 SAY "SCHEDULE NUMBERS FOR GROUP"

@ 2, 2 SAY " 1> 2>

3> "

@ 3, 2 SAY " 4> 5>

6> "

@ 4, 2 SAY " 7> 8>

9> "

@ 5, 2 SAY " 10> 11>

12> "

@ 6, 2 SAY " 13> 14>

15> "

@ 7, 2 SAY " 16> 17>

18> "

@ 8, 2 SAY " 19> 20>

```

21>      "
@ 9, 2 SAY " 22>      23>
24>      "
@ 10, 2 SAY " 25>      26>
27>      "
@ 11, 2 SAY " 28>      29>
30>      "
@ 12, 2 SAY " 31>      32>
33>      "
@ 13, 2 SAY " 34>      35>
36>      "
@ 14, 2 SAY " 37>      38>
39>      "
@ 15, 2 SAY " 40>      41>
42>      "
@ 16, 2 SAY " 43>      44>
45>      "
@ 17, 2 SAY " 46>      47>
48>      "
@ 18, 2 SAY " 49>      50>
51>      "
@ 19, 2 SAY " 52>      53>
54>      "
@ 20, 2 SAY "-----
-----"

```

```

@ 21, 2 SAY " E to edit/add a schedule no.      N to goto next page      Q to quit this
menu "

```

```

@ 22, 2 SAY " D to delete a schedule no.      P to print schedule no.'s      "

```

```

@ 23, 2 SAY " OPTION ?"

```

```

@ 1,48 GET mgname
      CLEAR GETS

```

```

SELECT PRIMARY

```

```

FIND "&mkey"

```

```

DO WHILE cno=mcno.AND.gno=mgno.AND.(.NOT.EOF).AND.(xno<=54).AND. #<>0

```

```

      STORE int(xno/3) TO row

```

```

      STORE xno-row*3 TO col

```

```

      IF col=0

```

```

          STORE 3 TO col

```

```

          STORE row-1 TO row

```

```

      ENDIF col=0

```

```

      @ row+2,25*(col-1)+8 SAY sno

```

```

      STORE sno TO msno

```

```

      SELECT SECOND

```

```

      FIND '&msno'

```

```

      IF #=0

```

```

          @ row+2,25*(col-1)+15 SAY "UnknownSchNo"

```

```

      ELSE

```

```

          @ row+2,25*(col-1)+15 SAY $(title,1,13)

```

```

      ENDIF #=0

```

```

      SELECT PRIMARY

```

```

      SKIP

```

```

ENDDO WHILE cno=mcno.AND.gno=mgno.AND.(.NOT.eo
STORE 'E' TO cmd

```

```

*           * page 2 for 55-99 schedule numbers

```

```

CASE !(cmd)= 'N' .AND.page<> 'N'

```

```

    STORE 'N' TO page

```

```

@ 1,21 SAY "SCHEDULE NUMBERS FOR GROUP"

```

```

@ 2, 2 SAY " 55>                               56>
57>                               "

```

```

@ 3, 2 SAY " 58>                               59>
60>                               "

```

```

@ 4, 2 SAY " 61>                               62>
63>                               "

```

```

@ 5, 2 SAY " 64>                               65>
66>                               "

```

```

@ 6, 2 SAY " 67>                               68>
69>                               "

```

```

@ 7, 2 SAY " 70>                               71>
72>                               "

```

```

@ 8, 2 SAY " 73>                               74>
75>                               "

```

```

@ 9, 2 SAY " 76>                               77>
78>                               "

```

```

@ 10, 2 SAY " 79>                              80>
81>                              "

```

```

@ 11, 2 SAY " 82>                              83>
84>                              "

```

```

@ 12, 2 SAY " 85>                              86>
87>                              "

```

```

@ 13, 2 SAY " 88>                              89>
90>                              "

```

```

@ 14, 2 SAY " 91>                              92>
93>                              "

```

```

@ 15, 2 SAY " 94>                              95>
96>                              "

```

```

@ 16, 2 SAY " 97>                              98>
99>                              "

```

```

@ 17, 0

```

```

@ 18, 0

```

```

@ 19, 0

```

```

@ 20, 2 SAY "-----"

```

```

-----"

```

```

@ 21, 2 SAY " E to edit/add a schedule no.      L to goto last page      Q to quit this
menu "

```

```

@ 22, 2 SAY " D to delete a schedule no.        P to print schedule no.'s      "

```

```

@ 23, 2 SAY " OPTION ?"

```

```

@ 1,48 GET mgname

```

```

    CLEAR GETS

```

```

    SELECT PRIMARY

```

```

FIND "&mkey"
LOCATE next 56 FOR xno>=55.AND.(gno=mgno).AND.(cno=mcno).AND.(.NOT.EOF)
DO WHILE cno=mcno.AND.gno=mgno.AND.(.NOT.EOF).AND.#<>0
    STORE int((xno-54)/3) TO row
    STORE xno-54-row*3 TO col
    IF col=0
        STORE 3 TO col
        STORE row-1 TO row
    ENDIF col=0
    @ row+2,25*(col-1)+8 SAY sno
    STORE sno TO msno
    SELECT SECOND
    FIND &msno
    IF #=0
        @ row+2,25*(col-1)+15 SAY "UnknownSchNo"
    ELSE
        @ row+2,25*(col-1)+15 SAY $(title,1,13)
    ENDIF #=0
    SELECT PRIMARY
    SKIP
ENDDO WHILE cno=mcno.AND.gno=mgno.AND.(.NOT.eo
STORE 'E' TO cmd

```

* * edit or delect schedule number for group

CASE !(cmd)= 'E' .OR.!(cmd)= 'D'

```

@ 23,18 SAY "
@ 23,18 SAY "which item no.? "
IF page= 'L'
    @ 23,33 SAY " (1-54)"
    STORE 1 TO mxno
ELSE
    @ 23,33 SAY "(55-99)"
    STORE 55 TO mxno
ENDIF
@ 23,40 GET mxno PICTURE "99"
READ
CLEAR GETS
IF (mxno>0.AND.mxno<55.AND.page= 'L').OR.(mxno>=55.AND.mxno<=99.AND.page='N')
    STORE mkey+str(mxno,2,0) TO mkey
    FIND "&mkey"
    IF !(cmd)= 'E'
        IF #=0
            STORE "       " TO msno
            @ 23,47 SAY "adding new schedule? (y/n)"
            @ 23,74 GET mnew
            READ
            CLEAR GETS
            IF !(mnew)= 'Y'
                IF page= 'L'
                    STORE int(mxno/3) TO row

```

```

        STORE mxno-(row*3) TO col
ELSE
        STORE int((mxno-54)/3) TO row
        STORE mxno-54-(row*3) TO col
ENDIF page= 'L'
IF col=0
        STORE 3 TO col
        STORE row-1 TO row
ENDIF col=0
STORE "                Enter the schedule number.
" TO mnote1
@ 23,18 GET mnote1
CLEAR GETS
@ row+2,25*(col-1)+8 GET msno PICTURE "XXXXXX"
READ
CLEAR GETS
SELECT secondary
FIND '&msno'
IF #=0
        @ row+2,25*(col-1)+8 SAY "                "
        STORE "is NOT in Project Data Base      " TO mnote3
        @ 23,18 GET msno
        @ 23,25 GET mnote3
        CLEAR GETS
        SELECT PRIMARY
ELSE
        STORE $(title,1,13) TO mttitle
        SELECT PRIMARY
        GOTO TOP
        LOCATE FOR (sno=msno .AND. cno=mcno)
        IF (sno=msno .AND. cno=mcno)
                STORE str(cno,1,0)+str(gno,2,0) TO mkey2
                USE groups INDEX groups
                FIND "&MKEY2"
                STORE gname TO mname2
                @ row+2,25*(col-1)+8 SAY "                "
                @ 23,20 GET msno
                STORE "exists in group      " TO mnote3
                @ 23,27 GET mnote3
                @ 23,45 GET mname2
                CLEAR GETS
                USE schedule INDEX schedule
        ELSE
                APPEND BLANK
                REPLACE xno WITH mxno, gno WITH mgno
                REPLACE cno WITH mcno, sno WITH msno
                @ row+2,25*(col-1)+15 SAY mttitle
                @ 23,18 SAY
        "
        ENDIF (sno=msno .AND. cno=mcno)
ENDIF #=0
ELSE

```



```

IF !(mnew) = 'N'
  @ 23,18 SAY
ENDIF !(mnew) = 'N'
ENDIF !(mnew)= 'Y'
ELSE
  IF page= 'L'
    STORE int(mxno/3) TO row
    STORE mxno-(row*3) TO col
  ELSE
    STORE int((mxno-54)/3) TO row
    STORE mxno-54-(row*3) TO col
  ENDIF page= 'L'
  IF col=0
    STORE 3 TO col
    STORE row-1 TO row
  ENDIF col=0

  STORE sno TO msno
  STORE sno TO msno2
  @ 23,18 SAY "
  @ row+2,25*(col-1)+8 GET msno2
  READ
  CLEAR GETS
  SELECT secondary
  FIND &msno2
  IF #=0
    @ row+2,25*(col-1)+8 GET msno
    CLEAR GETS
    STORE "is NOT in Project Data Base" TO mnote3
    @ 23,20 GET msno2
    @ 23,27 GET mnote3
    CLEAR GETS
  ELSE
    STORE $(title,1,13) TO mtitle
    SELECT PRIMARY
    GOTO TOP
    LOCATE FOR (sno=msno2 .AND. cno=mcno)
    IF (sno=msno2 .AND. cno=mcno)
      STORE str(cno,1,0)+str(gno,2,0) TO mkey2
      USE groups INDEX groups
      FIND "&mkey2"
      STORE gname TO mname2
      @ row+2,25*(col-1)+8 SAY "
      @ row+2,25*(col-1)+8 GET msno
      CLEAR GETS
      @ 23,18 SAY "

      @ 23,20 GET msno2
      STORE "exists in group " TO mnote3
      @ 23,27 GET mnote3
    ELSE

```

```

        @ 23,44 GET mgname2
        CLEAR GETS
        USE schedule INDEX schedule
    ELSE
        SELECT PRIMARY
        REPLACE sno WITH msno2
        @ row+2,25*(col-1)+15 SAY $(title,1,13)
        ENDIF (sno=msno2 .AND. cno=mcno)
    ENDIF #=0
ENDIF #=0
ELSE
    FIND "&mkey"
    IF #=0
        STORE "Not a Schedule No." TO mnote6
        @ 23,50 GET mnote6
        CLEAR GETS
    ELSE
        @ 23,50 SAY "sure? (y/n)"
        @ 23,65 GET mnew
        READ
        CLEAR GETS
        IF !(mnew)= 'Y'
            @ 23,18 SAY "

            IF page= 'L'
                STORE int(mxno/3) TO row
                STORE mxno-row*3 TO col
            ELSE
                STORE int((mxno-54)/3) TO row
                STORE mxno-54-row*3 TO col
            ENDIF page= 'L'
            IF col=0
                STORE 3 TO col
                STORE row-1 TO row
            ENDIF col=0
            STORE "WAIT...PROCESSING  " TO mnote5
            @ row+2,25*(col-1)+8 GET mnote5
            CLEAR GETS
            DELETE
            PACK
            @ row+2,25*(col-1)+8 SAY "

            ELSE
                IF !(mnew) = 'N'
                    @ 23,18 SAY "

                    ENDIF !(mnew) = 'N'
                ENDIF !(mnew)= 'Y'
                STORE 'E' TO cmd
            ENDIF #=0
        ENDIF !(cmd)= 'E'
    ENDIF (mxno>0.AND.mxno<55.AND.page= 'L' ).OR.

```

```

*      * print list of projects in the group

CASE !(cmd)= 'P'

    @ 23,18 SAY

"      "

    STORE " WAIT...PREPARING REPORT FOR PRINT" TO mnote5
    @ 23,20 GET mnote5
    CLEAR GETS
    SELECT PRIMARY
    USE schedule INDEX schedule
    FIND '&mkey'
    IF EOF
        STORE " There are no Schedules Numbers in Group" TO mnote5
        @ 23,18 GET mnote5
        @ 23,40 GET mgname
        CLEAR GETS
    ELSE
        STORE p.sno TO msno
        SELECT secon
        USE pdf INDEX pdf
        @ 23,18 SAY

"      "

        STORE " WAIT...PRINTING REPORT " TO mnote5
        @ 23,20 GET mnote5
        CLEAR GETS
        SET FORMAT TO PRINT
        DO WHILE .NOT. EOF.AND.(p.gno=mgno).AND.(p.cno=mcno)
@ 2,10 SAY "18th ENG BDE - Automated Construction Management System"
@ 4,5 SAY "Schedule Numbers For Project Reporting Group:"
@ 4,51 SAY mgname
@ 6,5 SAY "Sch. No.   Battalion           Title                               Location"
@ 7,5 SAY "=====
                STORE 9 TO mrow2
                DO WHILE .NOT.
EOF.AND.(mrow2<62).AND.(p.cno=mcno).AND.(p.gno=mgno)
                SELECT seco
                FIND '&msno'
                @ mrow2,6 SAY s.sno
                @ mrow2,18 SAY s.bn
                @ mrow2,28 SAY s.title
                @ mrow2,54 SAY s.loc
                STORE mrow2+2 TO mrow2
                SELECT PRIMARY
                SKIP +1
                STORE p.sno TO msno
                ENDDO WHILE .NOT.
EOF.AND.(mrow2<62).AND.(p.cno=mcno).AND.(p.gno=mgno)
                EJECT
                ENDDO WHILE .NOT. EOF.AND.(p.gno=mgno).AND.(p.
                EJECT
                SET FORMAT TO SCREEN

```

```
"      @ 23,18 SAY
      STORE 'E' TO cmd
      ENDIF EOF

      ENDCASE

      @ 23,3 SAY "Option? " GET cmd PICTURE '!'
      READ
      CLEAR GETS
      STORE $(mkey,1,3) TO mkey

      ENDDO WHILE !(cmd) <> 'Q'

      SELECT PRIMARY
      USE groups INDEX groups

      * return to GROUPS.CMD
      RETURN
      *
      *      * END SCHEDULE.CMD
      *
```

*

*

*

A - C - M - S Ver. 84.0

*

*

USA-CERL

*

PROGRAM: SPPDF.CMD

*

*

DESCRIPTION: Routine called by PDFMNU2.CMD to display Project Data Form on console screen. Task displayed are results of the selection criteria, directive number, funding type, battalion, or schedule number. Similar to PPDF.CMD.

*

*

CALLS: called by PDFMNU.CMD or through LISTPFD.CMD

*

ERASE

@ 1,26 SAY "TASK DATA"

@ 2, 0 SAY "PN Number "

@ 2,15 SAY pno

@ 2,38 SAY "SCHEDULE NUMBER"

@ 2,54 SAY sno

STORE sno TO msno

@ 3, 0 SAY "Title"

@ 3, 6 SAY title

@ 3,38 SAY "Loc."

@ 3,43 SAY loc

@ 4, 0 SAY "Battalion"

@ 4,10 SAY bn

@ 4,38 SAY "Project Type"

STORE pjtype TO pj

@ 4,51 SAY mpjtype&pj

@ 5, 0 SAY "Esti. Contractor Cost"

@ 5,22 SAY ecost

@ 6, 0 SAY "Esti. Troop Const. Cost"

@ 6,24 SAY etcost

@ 7, 0 SAY "Desired Start Date (mmddyy)"

@ 7,28 SAY sdate

@ 8, 0 SAY "Desired Compl. Date (mmddyy)"

@ 8,29 SAY cdate

@ 9, 0 SAY "Customer"

@ 9, 9 SAY customer

?

? "Press any key to continue."

SET CONSOLE OFF

WAIT

SET CONSOLE ON

ERASE
 SELECT SECONDARY
 USE ps INDEX ps
 FIND '&msno'

* * allocated funds

STORE ac1 TO mac1
 STORE ac2 TO mac2
 STORE ac3 TO mac3
 STORE ac4 TO mac4
 STORE ac5 TO mac5

* * expended funds

STORE ec1 TO mec1
 STORE ec2 TO mec2
 STORE ec3 TO mec3
 STORE ec4 TO mec4
 STORE ec5 TO mec5

SELECT PRIMARY
 USE pdf INDEX pdf

FIND '&msno'

@ 1, 0 SAY "	TYPES OF FUNDS	ESTIMATED COST	ALLOCATED FUNDS	ACTUAL EXPENDED	"
@ 2, 0 SAY "					"
@ 3, 0 SAY "					"
@ 4, 0 SAY "					"
@ 5, 0 SAY "	US TDY	"			
@ 5,17 SAY esc1					
@ 5,31 SAY "					"
@ 5,33 SAY mac1					
@ 5,47 SAY "					"
@ 5,50 SAY mec1					
@ 5,62 SAY "					"
@ 6, 0 SAY "					"
@ 7, 0 SAY "	US EQUIP	"			
@ 7,17 SAY esc2					
@ 7,31 SAY "					"
@ 7,33 SAY mac2					
@ 7,47 SAY "					"
@ 7,50 SAY mec2					
@ 7,62 SAY "					"
@ 8, 0 SAY "					"
@ 9, 0 SAY "	CSG TDY	"			
@ 9,17 SAY esc3					
@ 9,31 SAY "					"
@ 9,33 SAY mac3					
@ 9,47 SAY "					"
@ 9,50 SAY mec3					
@ 9,62 SAY "					"
@ 10, 0 SAY "					"
@ 11, 0 SAY "	CSG EQUIP	"			
@ 11,17 SAY esc4					
@ 11,31 SAY "					"
@ 11,33 SAY mac4					
@ 11,47 SAY "					"

```

@ 11,50 SAY mec4
@ 11,62 SAY "|"
@ 12, 0 SAY "+-----+-----+-----+-----+"
@ 13, 0 SAY "|   CSG LABOR   |"
@ 13,17 SAY esc5
@ 13,31 SAY "|"
@ 13,33 SAY mac5
@ 13,47 SAY "|"
@ 13,50 SAY mec5
@ 13,62 SAY "|"
@ 14, 0 SAY "+-----+-----+-----+-----+"
@ 15, 0 SAY "|   TOTAL   |"
STORE mac1+mac2+mac3+mac4+mac5 TO mac
STORE esc1+esc2+esc3+esc4+esc5 TO mesc
STORE mec1+mec2+mec3+mec4+mec5 TO mec
@ 15,17 SAY mesc
@ 15,31 SAY "|"
@ 15,33 SAY mac
@ 15,47 SAY "|"
@ 15,50 SAY mec
@ 15,62 SAY "|"
@ 16, 0 SAY "+-----+-----+-----+-----+"
@ 18, 0 SAY "COMMENTS:"
@ 18,10 SAY $(comments,1,40)
@ 20,10 SAY $(comments,41,29)
IF mcmd='4'
    STORE "Press any key to continue" to mnote
    @ 23,15 GET mnote
    CLEAR GETS
    SET CONSOLE OFF
    WAIT
    SET CONSOLE ON
    @ 23,0
ELSE
    STORE 'Y' TO mok
    @ 23,10 SAY "Do you wish to display next project? " GET mok PICTURE '!'
    READ
    IF mok<>"Y"
        STORE 1 TO mstop
    ENDIF
ENDIF
RETURN
*
*      * END SPPDF.CMD return to PDFMNU2.CMD or LISTPDF.CMD
*

```

```

*****
*
*
*           A - C - M - S  Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: WCSRPT.CMD
*
*   DESCRIPTION: This routine generates the "Weekly Construction Status
*                Report" which summarizes construction progress
*                by group and gives schedule number, title, battalion,
*                start date, completion date, percent scheduled, percent
*                actual complete, and days off critical path. It also
*                computes a weighted average over the group for percent
*                scheduled and percent complete.
*
*   CALLS: None
*
*****
ERASE
SET TALK OFF
SET COLON OFF
SET DELETE ON
*      * get printer/console control codes
RESTORE FROM install ADDITIVE
*      * set up default memory variables
STORE 0 TO mcno
STORE 0 TO mgno
STORE "Y" TO ALL
*
USE misc
*      * get last processing date
STORE date TO mdate
*      * present clusters for user selection
@ 1,0 SAY "                WEEKLY CONSTRUCTION STATUS REPORT"
@ 3,6 SAY "For period ending: " GET mdate PICTURE "999999"
CLEAR GETS
@ 5,0 SAY "Do you want to print out ALL the group reports for ALL of the "
@ 6,0 SAY "following clusters: (y/n) " GET ALL PICTURE '!'
*      * display clusters for user selection
USE clusters INDEX clusters
GOTO TOP
DO WHILE .NOT.EOF
    @ cno+7,2 SAY cno
    @ cno+7,3 SAY '>'
    @ cno+7,5 SAY cname
    SKIP
ENDDO WHILE .NOT.EOF
READ

```


CLEAR GETS

IF !(ALL)<> 'Y'

@ cno+9,7 SAY "which cluster? " GET mcno PICTURE "9"

@ cno+10,7 SAY " 0=EXIT"

READ

CLEAR GETS

IF mcno=0

RETURN

ENDIF mcno=0

STORE str(mcno,1,0) TO mkey

FIND "&mkey"

STORE cname TO mcna

USE groups INDEX groups

FIND "&mkey"

IF #=0

? "

NO Groups in Cluster"

? "

Returning to Menu"

STORE 1 TO count

DO WHILE count<150

STORE count+1 TO count

ENDDO WHILE count<150

RETURN

ENDIF #=0

USE schedule INDEX schedule

COPY TO tsno FIELD sno,cno,gno FOR cno=mcno

ELSE

USE schedules INDEX schedules

COPY TO tsno FIELD sno,cno,gno

ENDIF !(ALL)<> 'Y'

@ 17,0

? ' Set Printer to Top Of Form'

? ' Press RETURN when ready'

WAIT

* * clear last message

@ 16,0

@ 17,0

@ 18,0

@ 19,0

@ 20,0

@ 23,30 SAY rv+ 'PROCESSING' +rvoff

* * routine to convert mmddyy to military date: dd MMM yy

STORE 'JANFEBMARAPRMAJUNJULAUGSEPOCTNOVDEC' TO year

STORE \$(mdate,1,2) TO mnth

STORE \$(mdate,3,2)+ ' ' +\$(year,(val(mnth)*3-2),3)+ ' ' +\$(mdate,5,2) TO mil

USE tsno

GOTO TOP

* * routine to print report

SET FORMAT TO PRINT

SET MARGIN TO 0

* set print to 12 pitch

@ 0,0 SAY pl2

```

DO WHILE .NOT.EOF
*          * ml* are local memory variables for WCSSR
STORE 0.00 TO mlsmh
STORE 0.00 TO mlcws
STORE 0.00 TO mlact
STORE 0.00 TO mlaf
STORE 0.00 TO mlcf
STORE str(cno,1,0)+str(gno,2,0) TO mkey
STORE STR(cno,1,0)+STR(gno,1,0) TO mno
SELECT SECOND
USE groups INDEX groups
FIND "&mkey"
STORE gname TO mlgname
@ 1,28 SAY "WEEKLY CONSTRUCTION STATUS REPORT"
@ 3, 0 SAY ep+mlgname+epoff
@ 3,75 SAY "AS OF"
@ 3,81 SAY ep+ml+epoff
@ 6, 0 SAY "PROJECT      TITLE                SD          CD;
          %SCH        %ACT          +/-%-DAYS"
          --          --
@ 7, 0 SAY "-----"
          -----"

STORE 9 TO row
SELECT PRIMARY
STORE cno TO mcno
STORE gno TO mgno
DO WHILE gno=mgno .AND. cno=mcno .AND. (.NOT.EOF)

  IF row>=63
    EJECT
    @ 1,29 SAY "WEEKLY CONSTRUCTION STATUS REPORT"
    @ 3, 0 SAY ep+mlgname+epoff
    @ 3,75 SAY "AS OF"
    @ 3,81 SAY ep+ml+epoff
    @ 6, 0 SAY "PROJECT      TITLE                SD          CD;
          %SCH        %ACT          +/-%-DAYS"
          --          --
    @ 7, 0 SAY "-----"
          -----"

    STORE 9 TO row
  ENDIF row>=63

  STORE sno TO msno
  SELECT SECOND
  USE pdf INDEX pdf
  FIND "&msno"
  @ row, 0 SAY $(msno,1,2)+'-'+$(msno,3,2)+'-'+$(msno,5,2)
  @ row,11 SAY s.title
  @ row,33 SAY $(s.sdate,1,2)+'-'+$(s.sdate,3,2)+'-'+$(s.sdate,5,2)
  @ row,46 SAY $(s.cdate,1,2)+'-'+$(s.cdate,3,2)+'-'+$(s.cdate,5,2)
  USE ps INDEX ps
  FIND "&msno"
  @ row,59 SAY s.cws USING '999.9'
  @ row,69 SAY s.actper USING '999.9'

```

```

@ row,81 SAY s.adjust USING '9999'
STORE s.smh+mismh TO mismh
STORE (s.actper*s.smh)+mlact TO mlact
STORE (s.cws*s.smh)+mlcws TO mlcws
STORE s.ac1+s.ac2+s.ac3+s.ac4+s.ac5+mlaf TO mlaf
STORE s.ec1+s.ec2+s.ec3+s.ec4+s.ec5+mlef TO mlef
SELECT PRIMARY
SKIP +1
STORE row+2 TO row
ENDDO WHILE gno=mgno .AND. cno=mcno .AND. (.NOT.EOF)
EJECT
SAVE TO WCSR&mno ALL LIKE ml*
ENDDO WHILE .NOT.EOF
*      * set printer back to 10 pitch
@ 0,0 SAY pl0
*-----summary WCSR-----
STORE '1' TO no
DO WHILE &no<=mcno
STORE '1' TO no2
STORE '0' TO no3
STORE 'A' TO ctrl1
STORE 'A' TO ctrl2
STORE 11 TO row
@ 3,15 SAY "GRAF 84 WEEKLY CONSTRUCTION STATUS SUMMARY REPORT"
@ 6, 8 SAY "CONSTRUCTION" AS OF"
@ 6,67 SAY ml
@ 8,35 SAY "%SCH" ZACT"
@ 9,35 SAY "----" ----"
DO WHILE ctrl1='A'
IF FILE ( 'wcsr&no&no2..mem' )
RESTORE FROM wcsr&no&no2 ADDITIVE
ELSE
STORE 'B' TO ctrl1
STORE no2 TO no3
LOOP
ENDIF
@ row, 8 SAY mlname
@ row,35 SAY mlcws/mlsmh USING '999.9'
@ row,54 SAY mlact/mlsmh USING '999.9'
STORE row+2 TO row
STORE STR(&no2+1,1,0) TO no2
ENDDO
STORE '1' TO no2
STORE row+6 TO row
@ row, 8 SAY "FUNDING"
@ row+1,35 SAY "ALLOCATED" EXPENDED Z"
@ row+2,35 SAY "-----" ----- "-"
STORE row+4 TO row
DO WHILE (no2<>no3)
RESTORE FROM wcsr&no&no2 ADDITIVE
@ row, 8 SAY mlname
@ row,31 SAY mlaf USING '99,999,999.99'

```

```
@ row,49 SAY mlaf USING '99,999,999.99'  
@ row,67 SAY (mlaf/mlaf)*100.00 USING '999.9'  
STORE row+2 TO row  
STORE STR(&no2+1,1,0) TO no2  
ENDDO  
EJECT  
STORE STR(&no+1,1,0) TO no  
ENDDO  
SET FORMAT TO SCREEN  
USE  
*      * delete schedule number file  
DELETE FILE tsno  
ERASE  
RETURN  
*  
*      * END WCSRPT.CMD  
*
```



```

ELSE
  LOOP
ENDIF !(mid)= 'B'
ENDIF !(mid)= 'A'

ENDDO WHILE mokid<> 'Y'
*      * get schedule number and input WPR's until user exits
DO WHILE !(mmore)<> 'N'
  @ 13,0 SAY "please enter the SCHEDULE NUMBER: " GET msno
  READ
  CLEAR GETS

  SELECT PRIMARY
  USE &my.:ps INDEX &my.:ps
  FIND '&msno'
  IF #=0
    @ 18,4
    ? "Task NOT FOUND in the project databases, check carefully."
  ELSE
    STORE date TO mdate
    USE
    @ 16,0 SAY "please enter the PERIOD END (mmddyy): ";
    GET mweek PICTURE "999999"
    READ
    CLEAR GETS

    IF mweek<=mdate
      @ 17,0 SAY "Project Status already accumulated to " +mdate
    ELSE
      USE &my.:days INDEX &my.:days
      FIND '&mweek'
      IF #=0
        @ 17,0 SAY "PERIOD END must be Friday."
        LOOP
      ELSE
        *      * check whether it is the correct task
        ERASE
        SELECT SECOND
        USE &my.:pdf INDEX &my.:pdf
        FIND '&msno'
        STORE $(title,1,18) TO mttitle
        STORE bn TO mbn
        STORE co TO mco
        STORE STR(plt,1,0) TO mplt
        STORE '&mbn'+'/'+'&mco'+'/'+'&mplt' TO munit
        @ 2,0 SAY "SECTION I: TASK IDENTIFICATION "
        @ 2,42 SAY "Period End: " GET mweek
        @ 4,0 SAY "(1) Schedule No.: " GET msno
        @ 4,42 SAY "(2) BN/CO/PLT : " GET munit
        @ 5,0 SAY "(3) Title : " GET mttitle
        @ 5,42 SAY "(4) Location : " GET loc
        @ 6,0 SAY "(5) Start Date : " GET sdate
      ENDIF
    ENDIF
  ENDIF
ENDIF

```

```

@ 6,42 SAY "(6) Comp Date : " GET cdate
CLEAR GETS
@ 10,5 SAY "Is this the correct task? (y/n) " GET mok PICTURE '!'
READ
CLEAR GETS
IF mok= "Y"
  @ 10,0
  @ 6,18 GET sdate
  @ 6,58 GET cdate
  READ
  CLEAR GETS
  USE
  STORE "wait... setting up for input" TO note
  @ 10,15 get note
  CLEAR GETS
  *      * see if other user has worked on this task
  USE locks&else
  SELECT PRIMARY
  USE wpr&else INDEX wpr&else
  FIND "&msno&mweek"
  IF #<>0.OR.(s.snoweek=msno+mweek)
    @ 10,0
    @ 19,0 SAY "The other User Station has worked on this WPR;
in the current session."
    @ 20,0 SAY "Please work on other WPR's."
  ELSE
    *      * set lock on this task number and week
    SELECT SECOND
    USE locks&my
    REPLACE snoweek WITH msno+mweek
    USE wpr&my INDEX wpr&my
    FIND "&msno&mweek"
    IF #=0
      *      * set up for WPR data entry
      SELECT SECONDARY
      USE wpr&my INDEX wpr&my
      APPEND BLANK
      REPLACE sno WITH msno, week WITH mweek
      USE wmdays&my INDEX wmdays&my
      APPEND BLANK
      REPLACE sno WITH msno, week WITH mweek
    ENDIF #=0
    SELECT PRIMARY
    USE
    SELECT SECONDARY
    USE wpr&my INDEX wpr&my
    FIND "&msno&mweek"

*****
DO wpr1
*****

```

```
      *      * clear record lock
      USE locks&my
      REPLACE snoweek WITH 'xxxxxxXXXXXX'
      USE
      ENDIF #<>0.OR.(s.snoweek=msno+mweek)
      ENDIF mok= "Y"
      ENDIF #=0
      ENDIF mweek<=mdate
      ENDIF #=0

      ERASE
      STORE 'Y' TO mmore
      @ 10,5 SAY "Do you want to continue entering Weekly Reports? (y/n)" ;
      GET mmore
      READ
      CLEAR GETS
      ENDDO WHILE !(mmore)<> 'N'
      ERASE
      RETURN
      *
      *      * END WPR.CMD
      *
```



```
*****  
*  
*  
*      A - C - M - S   Ver. 84.0  
*  
*      USA-CERL  
*  
* PROGRAM: WPR1.CMD -- Two-User Version --  
*  
* DESCRIPTION: Subroutine to input data of Sections I and II of WPR.  
*              Inherited global memory variables form WPR.CMD: msno,  
*              mweek, mttitle, my, else. Calls WPR2.CMD to complete  
*              data entry and returns to WPR.CMD.  
*  
* CALLS: by WPR.CMD, calls WPR2.CMD  
*
```

-----SECTION I-----

*-----SECTION II-----
-

```
@ 1,18 SAY "SECTION II: PERSONNEL USE THIS PERIOD"
@ 2, 0 GET mtitle
@ 2,20 SAY "SCHEDULE No."
@ 2,33 GET msno
@ 2,41 SAY "PERIOD END"
@ 2,52 GET mweek
CLEAR GETS
```

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```

@ 11,68 SAY "|"
@ 12, 0 SAY "+-----+-----+-----+"
@ 13, 0 SAY "| NCO |"
@ 13,11 GET nsupport
@ 13,23 SAY "||"
@ 13,28 GET ncharge
@ 13,39 SAY "|"
@ 13,43 GET nwork
@ 13,52 SAY "|| Maint |"
@ 13,62 GET mlost
@ 13,68 SAY "|"
@ 14, 0 SAY "+-----+-----+-----+"
@ 15, 0 SAY "| EM |"
@ 15,11 GET esupport
@ 15,23 SAY "||"
@ 15,28 GET echarge
@ 15,39 SAY "|"
@ 15,43 GET ework
@ 15,52 SAY "|| Other |"
@ 15,62 GET olost
@ 15,68 SAY "|"
@ 16, 0 SAY "+-----+-----+-----+"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ; CTR-D: next
character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"
READ
CLEAR GETS
*****
DO wpr2
*****
CLEAR GETS
* * return to WPR.CMD after WPR2.CMD
RETURN
*
* * END WPR1.CMD
*
```

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-----SECTION III-----

SELECT SECOND

SELECT PRIMARY

@ 1, 0 SAY "SECTION III: EQUIPMENT UTILIZED THIS PERIOD SCHEDULE NO:"

@ 1.66 SAY "PERIOD:"

STORE 1 TO pageno

@ 3,12 SAY +-----> Enter 0 for US Equip. ; C for CSC Equip.;

@ 4.60 SAY "page " GET pageno PICTURE "9"

CLEAR GETS

6.0 SAY "Equip No. ty. hrs. Equip No. ty. hrs. Equip No. ty. hrs. Equip No. ty. hrs."

7, U SAY

[illegible]

2 10 0 SAY !!!

0 11. 0 SAY "-----"

@ 12.0 SAY "!"	.	!	.	!	.	!	.
----------------	---	---	---	---	---	---	---

13, 0 SAT

11. The following table shows the number of people who attended the concert in each age group.

0 18 0 SAY "Enter as many entries as you want: NOTE that only the row located by "

Q 19. 0 SAY "the blinking curser can be entered or changed."

20.0 SAY "To delete a entry, leave the EQUIP NO. of that entry to be '0' ."

0 21 0 SAY "NOTE: USE CTRL-W TO SCROLL THROUGH OLD ENTRIES"

FIND &msno&mweek

```

* loop to let user change any data previously entered for this week
DO WHILE (.NOT.EOF).AND.sno=msno.AND.week=mweek.AND.(#<>0)
  @ 4,60 SAY "page " GET pageno PICTURE "9"
  CLEAR GETS
  @ row,2 GET eno1
  @ row,7 GET atchno1
  @ row,12 GET type1 PICTURE '!'
  @ row,15 GET hr1
  @ row,22 GET eno2
  @ row,27 GET atchno2
  @ row,32 GET type2 PICTURE '!'
  @ row,35 GET hr2
  @ row,42 GET eno3
  @ row,47 GET atchno3
  @ row,52 GET type3 PICTURE '!'
  @ row,55 GET hr3
  @ row,62 GET eno4
  @ row,67 GET atchno4
  @ row,72 GET type4 PICTURE '!'
  @ row,75 GET hr4
  READ
  CLEAR GETS
  STORE "1" TO no
  * routine to verify that equipment is in eqcost.dbf
  DO WHILE no<= "4"
    IF eno&no=0
      REPLACE atchno&no WITH 0,type&no WITH " " ,hr&no WITH 0
      STORE str(&no+1,1,0) TO no
      LOOP
    ENDIF eno&no=0
    STORE STR(p.eno&no,4,0)+STR(p.atchno&no,2,0) TO meq
    SELECT SECONDARY
    FIND '&meq'
    DO WHILE #=0.AND.eno&no<>0
      SELECT PRIMARY
      @ 16,0 SAY " "+CHR(7)
      ? "          Unknown EQUIPMENT CODE,      try again.  "
      @ row,(&no-1)*20+2 GET eno&no
      @ row,(&no-1)*20+7 GET atchno&no
      @ row,(&no-1)*20+12 GET type&no
      @ row,(&no-1)*20+15 GET hr&no
      READ
      CLEAR GETS
      STORE STR(p.eno&no,4,0)+STR(p.atchno&no,2,0) TO meq
      SELECT SECONDARY
      FIND '&meq'
    ENDDO WHILE #=0.AND.eno&no<>0
    SELECT PRIMARY
    IF eno&no=0
      REPLACE atchno&no WITH 0,type&no WITH " " ,hr&no WITH 0
      STORE str(&no+1,1,0) TO no
      LOOP

```

```

ENDIF eno&no=0
* check for illegal type
DO WHILE !(type&no)<> 'U'.AND.!(type&no)<> 'O' .AND.!(type&no)<>'C'
  @ 16,0 SAY " "
  ? '      Illegal type, must be "U","C" or "O" '
  @ row,(&no-1)*20+12 GET type&no
  READ
  CLEAR GETS
ENDDO WHILE
@ 17,0
STORE str(&no+1,1,0) TO no
ENDDO WHILE no<= "4"
STORE row+2 TO row
IF row>14
  STORE 8 TO row
  STORE pageno+1 TO pageno
ENDIF row>14
SKIP 1
ENDDO WHILE (.NOT.EOF).AND.sno=msno.AND.week=mweek.AND.(#<>0)
* now get new equipment data
STORE "y" TO amore
@ 16,0 SAY "want to add NEW entries of equipment utilized? (y/n)" GET amore
READ
CLEAR GETS
@ 16,0
DO WHILE !(amore)= 'Y'
  SELECT PRIMARY
  APPEND BLANK
  REPLACE sno WITH msno,week WITH mweek,type1 WITH "U" ,type2 WITH "U" ,type3 WITH "U" ,
    type4 WITH "U"
  @ 4,60 SAY "page " GET pageno PICTURE "9"
  CLEAR GETS
  @ row,2 GET eno1
  @ row,7 GET atchno1
  @ row,12 GET type1 PICTURE '!'
  @ row,15 GET hr1
  @ row,22 GET eno2
  @ row,27 GET atchno2
  @ row,32 GET type2 PICTURE '!'
  @ row,35 GET hr2
  @ row,42 GET eno3
  @ row,47 GET atchno3
  @ row,52 GET type3 PICTURE '!'
  @ row,55 GET hr3
  @ row,62 GET eno4
  @ row,67 GET atchno4
  @ row,72 GET type4 PICTURE '!'
  @ row,75 GET hr4
  READ
  CLEAR GETS
  STORE "1" TO no
  * routine to verify that equipment is in eqcost.dbf

```

```

DO WHILE no<= "4"
  IF eno&no=0
    REPLACE atchno&no WITH 0,type&no WITH " ",hr&no WITH 0
    STORE str(&no+1,1,0) TO no
    LOOP
  ENDIF eno&no=0
  STORE STR(p.eno&no,4,0)+STR(p.atchno&no,2,0) TO meq
  SELECT SECONDARY
  FIND '&meq'
  DO WHILE #=0.AND.eno&no<>0
    SELECT PRIMARY
    @ 16,0 SAY " "+CHR(7)
    ? "          Unknown EQUIPMENT CODE,      try again.  "
    @ row,(&no-1)*20+2 GET eno&no
    @ row,(&no-1)*20+7 GET atchno&no
    @ row,(&no-1)*20+12 GET type&no
    @ row,(&no-1)*20+15 GET hr&no
    READ
    CLEAR GETS
    STORE STR(p.eno&no,4,0)+STR(p.atchno&no,2,0) TO meq
    SELECT SECONDARY
    FIND '&meq'
  ENDDO WHILE #=0.AND.eno&no<>0
  SELECT PRIMARY
  IF eno&no=0
    REPLACE atchno&no WITH 0,type&no WITH " ",hr&no WITH 0
    STORE str(&no+1,1,0) TO no
    LOOP
  ENDIF eno&no=0
  DO WHILE !(type&no)<> 'U' .AND.!(type&no)<> 'O'.AND.!(type&no)<> 'C'
    @ 16,0 SAY " "
    ? '      Illegal type, must be "U", "C" or "O" '
    @ row,(&no-1)*20+12 GET type&no
    READ
    CLEAR GETS
  ENDDO WHILE
  @ 17,0
  STORE str(&no+1,1,0) TO no
ENDDO WHILE no<= "4"
STORE row+2 TO row
@ 16,10 SAY "continue? (y/n)" GET amore PICTURE '!'
READ
CLEAR GETS
IF row>14
  STORE 8 TO row
  STORE pageno+1 TO pageno
ENDIF row>14
ENDDO WHILE !(amore)= 'Y'
*-----SECTION IV-----
* get other costs
ERASE
@ 2, 18 SAY "SECTION IV: OTHER COST(S) THIS PERIOD"

```

```

@ 4, 0 SAY "SCHEDULE NO.: " GET msno
@ 4,26 SAY "TITLE: " GET mtitle
@ 4,54 SAY "PERIOD END : " GET mweek
CLEAR GETS
SELECT PRIMARY
USE wpr&my INDEX wpr&my
FIND '&msno&mweek'
@ 7, 0 SAY "(18) CSC Labor      : " GET csglbr
@ 7,37 SAY "(21) Rental Fees   : " GET rental
@ 9, 0 SAY "(19) CSC TDY       : " GET csgtdy
@ 9,37 SAY "(22) Transportation: " GET trans
@ 11, 0 SAY "(20) CSC Equipment : " GET csgeq
@ 11,37 SAY "(23) Other US TDY  : " GET other

```

READ

CLEAR GETS

ERASE

*-----SECTION V-----

* get manhours of work by activities: i-j's in the CPM

@ 2.18 SAY "SECTION V: CONSTRUCTIVE WORK BY ACTIVITY"

@ 4. 0 SAY "SCHEDULE NO.: " GET msno

```
@ 4.26 SAY "TITLE: " GET mtitle
```

```
@ 4.54 SAY "PERIOD END :" GET mweek
```

@ 8. 1 SAY "+-----+-----+-----+-----+-----+-----"

@ 9. 1 SAY "c (25) c (26) c (28) c (31) c"

@ 10.	1	SAY "	c	I	c	J	c	SUBTASKS	c	ACTUAL	c	PHY	%	c"
-------	---	-------	---	---	---	---	---	----------	---	--------	---	-----	---	----

@ 11. 1 SAY "c c c c MAN HOURS c COMPLETE c"

@ 12. 1 SAY "-----"

STORE 'wait..one' TO note

@ 21. 5 GET note

CLEAR GETS

SELECT SECOND

```
USE &my.:act INDEX &my.:act
```

SELECT PRIMARY

```
USE wact&my INDEX wact&my
```

FIND '&msno&mweek'

@ 21.0

```
* loop to let user change previously entered data
```

```
DO WHILE (.NOT.EOF).AND.(p.sno=msno).AND.(mweek=week).AND.(#<>0)
```

STORE "NOTE: To DELETE and unwanted I-J entry set Hours and Per.Comp. to 0" TO mnote

```
@ 7.1 GET /mnote
```

CLEAR GETS

@ 13, 1 SAY "ç ç ç ç ç ç"

@ 14. 1 SAY "+-----+-----+-----+-----+-----+-----+"

@ 15. 1 SAY "ç ç ç ç ç"

@ 16, 1 SAY "-----"

@ 17, 1 SAY "ç ç ç ç ç ç"

@ 18, 1 SAY "+-----+-----+-----+-----+-----+-----+"

@ 19, 1 SAY "ç ç ç ç ç"

@ 20. I SAY "+-----+-----+-----+-----+-----+-----+-----"

@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ;"

```
@ 23, 0 SAY "      CTR-W: next screen ; CTR-D: next character ; CTR-S: next character ;
```

STORE 1 TO nu

```

STORE 13 TO row
DO WHILE (nu<5).AND.(.NOT.EOF).AND.(p.sno=msno).AND.(mweek=week).AND.(#<>0)
  @ row, 3 GET p.i
  @ row,12 GET p.j
  STORE msno+STR(p.i,4,0)+STR(p.j,4,0) TO mkey
  SELECT SECONDARY
  FIND '&mkey'
  @ row,21 GET s.des
  CLEAR GETS
  SELECT PRIMARY
  @ row,39 GET p.amh
  @ row,52 GET p.per
  READ
  CLEAR GETS
  STORE nu+1 TO nu
  STORE row+2 TO row
  SKIP +1
ENDDO while (nu<5)
ENDDO
@ 7,0
STORE 'NOTE: Enter 0 for Start Node to STOP inputting' to note
@ 7,10 GET note
CLEAR GETS
STORE "Y" TO mmore
DO WHILE !(mmore) <> "N"
  @ 21, 5
  STORE "Y" TO mmore
  STORE "want to add new i-j's?(y/n)" TO note
  @ 21, 5
  @ 21, 5 GET note
  CLEAR GETS
  @ 21,34 GET mmore
  READ
  @ 21, 5
  CLEAR GETS
  IF !(mmore)<>"Y"
    STORE "N" TO mmore
  LOOP
ENDIF
@ 13, 1 SAY "ç          ç          ç          ç          ç          ç"
@ 14, 1 SAY "+-----+-----+-----+-----+-----+"
@ 15, 1 SAY "ç          ç          ç          ç          ç          ç"
@ 16, 1 SAY "+-----+-----+-----+-----+-----+"
@ 17, 1 SAY "ç          ç          ç          ç          ç          ç"
@ 18, 1 SAY "+-----+-----+-----+-----+-----+"
@ 19, 1 SAY "ç          ç          ç          ç          ç          ç"
@ 20, 1 SAY "+-----+-----+-----+-----+-----+"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ;"
@ 23, 0 SAY "      CTR-W: next screen ; CTR-D: next character ; CTR-S: next character ;"
STORE 1 TO nu
STORE 13 TO row
DO WHILE (nu<5)

```

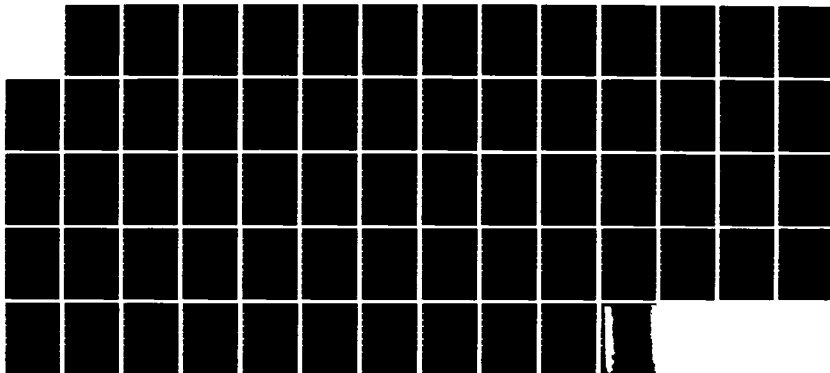

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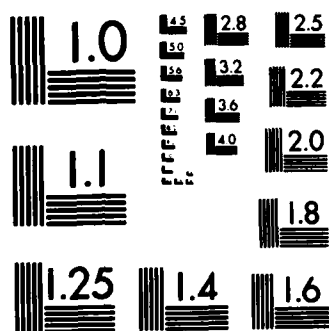
AUTOMATED CONSTRUCTION MANAGEMENT SYSTEM (ACMS) VOLUME
2 PROGRAM DOCUMENTATION(U) CONSTRUCTION ENGINEERING
RESEARCH LAB (ARMY) CHAMPAIGN IL C E HERRING JUN 84
CERL-TR-P-158-VOL-2 F/G 9/2

3/3

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

```

STORE 0 TO mi
@ row, 3 GET mi PICTURE '9999'
READ
@ 21,0
CLEAR GETS
IF mi=0
    STORE 5 TO nu
    STORE 'N' TO mmore
    LOOP
ENDIF
STORE 0 TO mj
@ row,12 GET mj PICTURE '9999'
READ
CLEAR GETS
STORE STR(mi,4,0)+STR(mj,4,0) TO mij
STORE msno+mweek+mij TO mwkey
STORE msno+mij TO mkey
SELECT SECONDARY
FIND "&mkey"
IF #=0
    * activity not in data base
    STORE 'I-J NOT FOUND'+CHR(7) TO note
    @ 21,5 GET note
    CLEAR GETS
    LOOP
ENDIF
SELECT PRIMARY
FIND '&mwkey'
IF #=0
    APPEND BLANK
    REPLACE i WITH mi, j WITH mj, sno WITH msno, week WITH mweek
ENDIF
@ row,21 GET des
CLEAR GETS
@ row,39 GET p.amh
@ row,52 GET p.per
READ
CLEAR GETS
STORE nu+1 TO nu
STORE row+2 TO row
ENDDO while (nu<5)
ENDDO while !(mmore)<>"N"
ERASE
CLEAR GETS
RETURN
*
* END WPR2.CMD
*
```

*
*
*
*
*
*
*
*
*
*
*
*

A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: PS.CMD -- Single-User Version --

DESCRIPTION: This program processes the Weekly Progress Reports.
The weekly input transaction files W*.DBF are used
to update the master files. Only tasks that have WPR
data in WPR.DBF are involved in this program.

CALLS: none

```
ERASE
SET TALK OFF
SET COLON OFF
SET DELETE ON
*      * get printer/console control codes
RESTORE FROM install ADDITIVE
* * * * * MAIN PROCESSING ROUTINE * * * * *
ERASE
USE misc
*      * get graff tdy rates
STORE goff TO goff
STORE gnco TO gnco
STORE gem TO gem
*      * get date of last processing
STORE date TO mdate
@ 1,0 SAY '                PROCESS WEEKLY PROGRESS REPORTS'
USE days INDEX days
*      * days contains fridays
FIND '&mdate'
*      * get this week
SKIP +1
STORE day TO mdate
STORE mdate TO mdatel
STORE "N" TO msure
*      * give user option to process for any period
DO WHILE !(msure)<> "Y"
  @ 4,0 SAY "Enter date of the period end(Friday): " GET mdate
  @ 5,0 SAY '      or press RETURN if correct'
  READ
  CLEAR GETS
  IF mdate<>mdatel
    FIND '&mdate'
    IF #=0
      @ 6,0 SAY 'Period Ending date must be Friday. Enter again.'
      STORE mdatel TO mdate
    ELSE
```

```

@ 5,0
@ 6,0
@ 6,0 SAY "Sure? (y/n) " GET msure PICTURE '!'
READ
CLEAR GETS
ENDIF #=0
ELSE
STORE "Y" TO msure
ENDIF mdate<>mdatel
ENDDO WHILE !(msure)<> "Y"

USE misc
*      * store processing date for next time
REPLACE date WITH mdate
SELECT PRIMARY
USE ps INDEX ps
SELECT SECOND
USE wpr INDEX wpr
@ 12,0
@ 12,30 SAY rv+'PROCESSING'+rvoff

DO WHILE .not.EOF
STORE s.sno TO msno
SELECT PRIMARY
FIND "&msno"
IF p.date>=mdate
SELECT SECOND
FIND "&msno"
DO WHILE (s.sno=msno).AND.(.not.EOF)
SKIP +1
ENDDO WHILE (s.sno=msno).AND.(.not.EOF)
LOOP
ELSE
SELECT SECOND
FIND "&msno"
* skip previously processsed wprs
DO WHILE (s.sno=msno).AND.(week<=p.date).AND.(.not.EOF)
SKIP +1
ENDDO WHILE (s.sno=msno).AND.(week<=p.date).AN
* * this loop processes all wpr ' s up to the desired date.
DO WHILE (s.sno=msno).AND.(s.week>p.date).AND.(s.week<=mdate)
@ 14,20 SAY "      Schedule No.:" GET msno
CLEAR GETS
STORE sno+week TO msnweek
SELECT PRIMARY
REPLACE p.date WITH s.week
REPLACE p.cws WITH s.cws
REPLACE p.adjust WITH s.adjust
REPLACE ec5 WITH ec5+s.csgeq
REPLACE ec4 WITH ec4+s.csgeq
REPLACE ec3 WITH ec3+s.csgeq
REPLACE ec1 WITH ec1+s.other

```

```

REPLACE ec2 WITH ec2+s.rental+s.trans
*      * processing mandays data
SELECT SECOND
USE pdf INDEX pdf
FIND "&msno"
IF !(graf)= "N"
*      * for non-graf projects, find the particular tdy rates
STORE OFF TO ngoff
STORE nco TO ngnco
STORE em TO ngem
USE wmandays INDEX wmandays
FIND "&msnoweek"
SELECT PRIMARY
*      * primary is ps
REPLACE ecl WITH ecl+s.ocharge*ngoff+s.ncharge*ngnco+s.echarge*ngem
ELSE
USE wmandays INDEX wmandays
FIND "&msnoweek"
SELECT PRIMARY
REPLACE ecl WITH ecl+s.ocharge*goff+s.ncharge*gnco+s.echarge*gem
ENDIF !(graf)= "N"
*-----
*      * processing equip data
*-----
SELECT PRIMARY
USE eqcost INDEX eqcost
SELECT SECOND
USE weq INDEX weq
FIND "&msnoweek"
*      * use useqcost to store us equip cost.
STORE 0 TO useqcost
STORE 0 TO csceqcost
*      * loop through all the weq records of this wpr
DO WHILE (s.sno+s.week=msnoweek).AND.(.NOT.EOF).AND.#<>0
STORE "1" TO no
*      * looping through all 4 equip items in one weq record
DO WHILE no<= "4"
IF s.eno&no<>0
IF s.type&no= "0"
STORE str(&no+1,1,0) TO no
LOOP
ENDIF
STORE str(s.eno&no,4,0)+str(s.atchno&no,2,0) TO mkey
SELECT PRIMARY
FIND "&mkey"
IF s.type&no='U'
STORE p.omcost*s.hr&no +useqcost TO useqcost
ELSE
STORE p.omcost*s.hr&no+csceqcost TO csceqcost
ENDIF
ENDIF s.eno&no<>0
STORE str(&no+1,1,0) TO no

```

```

        ENDDO WHILE no<= "4"
        SELECT SECOND
        SKIP +1
    ENDDO WHILE (sno+week=msnoweek).AND.(.not.EOF)
    *-----
    *      * processing activity data
    *-----
    SELECT SECOND
    USE wact INDEX wact
    FIND '&msnoweek'
    SELECT PRIMARY
    USE act INDEX act
    STORE 0.0 TO mactper
    STORE 0 TO mtamh
    SUM p.smh TO mtsmh FOR p.sno=msno
    FIND '&msno'
    DO WHILE (p.sno=msno).AND.(s.sno+s.week=msnoweek).AND.(.NOT.EOF).AND.(#<>0)
        STORE msnoweek+STR(p.i,4,0)+STR(p.j,4,0) TO mij
        SELECT SECOND
        FIND '&mij'
        IF #<>0
            SELECT PRIMARY
            REPLACE p.amh WITH p.amh+s.amh
            REPLACE p.per WITH s.per
        ELSE
            SELECT PRIMARY
        ENDIF
        STORE p.amh+mtamh TO mtamh
        STORE (p.smh/mtsmh)*p.per+mactper TO mactper
        SKIP +1
    ENDDO
    *-----
    *      * update mandays master
    *-----
    SELECT SECOND
    USE wmandays INDEX wmandays
    FIND "&msnoweek"
    SELECT PRIMARY
    USE mandays INDEX mandays
    FIND "&msno"
    REPLACE osupport WITH osupport+s.osupport
    REPLACE nsupport WITH nsupport+s.nsupport
    REPLACE esupport WITH esupport+s.esupport
    REPLACE ocharge WITH ocharge+s.ocharge
    REPLACE owork WITH owork+s.owork
    REPLACE ncharge WITH ncharge+s.ncharge
    REPLACE nwork WITH nwork+s.nwork
    REPLACE echarge WITH echarge+s.echarge
    REPLACE ework WITH ework+s.ework
    REPLACE wlost WITH wlost+s.wlost
    REPLACE mlost WITH mlost+s.mlost
    REPLACE olost WITH olost+s.oloost

```

```
*-----*  
*      * accumulate useq cost,csceq cost and per comp  
*-----*  
SELECT PRIMARY  
USE ps INDEX ps  
FIND "&msno"  
REPLACE ec2 WITH ec2+useqcost  
REPLACE ec4 WITH ec4+csceqcost  
REPLACE actper WITH mactper  
REPLACE amh WITH mtamh  
*      * get next wpr to process  
SELECT SECOND  
USE wpr INDEX wpr  
FIND "&msno"  
DO WHILE (sno=msno).AND.(week<=p.date).AND.(.not.EOF)  
    SKIP 1  
ENDDO WHILE (sno=msno).AND.(week<=p.date).AND.  
ENDDO WHILE (s.sno=msno).AND.(s.week>p.date).a  
ENDIF p.date>=mdate
```

ENDDO WHILE .not.EOF

ERASE
RETURN

```
*  
*      * END PS.CMD  
*
```

*
*
* A - C - M - S Ver. 84.0
*
*
* USA-CERL
*
*
* PROGRAM: BACKUP.CMD
*
*
* DESCRIPTION: Data base backup program to clear processed data from
* weekly temporary data bases. All weekly input data base
* file names begin with "W". Backs off data contained in
* WPR.DBF, WMANDAYS.DBF, WACT.DBF, and WEQ.DBF. Copies all
* data entered on or after the last processing date.
*
* CALLS: none: quits to A:SUBMIT PIPBAK
*

ERASE

SET TALK OFF

SET COLON OFF

@ 1,0

? '

WEEKLY DATA BASE BACKUP'

CLEAR GETS

USE misc

STORE date TO mdate

USE

* * all created .dbf files have month and day in file name

* * example: WPR0708.DBF <= WPR&mddd.DBF

STORE \$(mdate,1,4) TO mddd

@ 5,0

? '

Backing off CERL data '

USE wpr INDEX wpr

COPY TO wpr&mddd FOR week<=mdate

COPY TO tt FOR week>mdate

USE tt

COPY TO wpr

USE wpr

INDEX ON sno+week TO wpr

? '

Backing off old mandays data'

USE wmandays INDEX wmandays

COPY TO wman&mddd FOR week<=mdate

COPY TO tt FOR week>mdate

USE tt

COPY TO wmandays

USE wmandays

INDEX ON sno+week TO wmandays

? ' Backing off old CPM data'

```
USE wact INDEX wact
COPY TO wact&mmdd FOR week<=mdate
COPY TO tt FOR week>mdate
USE tt
COPY TO wact
USE wact
INDEX ON sno+week+str(i,4,0)+str(j,4,0) TO wact
```

? ' Backing off old equipment data'

```

USE weq INDEX weq
COPY TO weq&mmdd FOR week<=mdate
COPY TO tt FOR week>mdate
USE eq INDEX eq
append from weq&mmdd
USE tt
COPY TO weq
USE weq
INDEX ON sno+week TO weq
USE
DELETE FILE tt
ERASE

```

@ 1,0

?

?

?

2 11

Insert Diskette in Drive to make CERL Data Disk"

Press RETRUN when ready to copy"

SET CONSOLE OFF

WAIT

SET CONSOLE ON

?

2 "

WAIT...COPYING"

* * c is floppy on TeleVideo TS-806

SET DEFA TO C:

RESET C:

SET DEFA TO A:

USE wpr&mmd

COPY TO c:wpr&mmdd

USE wman&mmd

COPY TO c:wman&mmd

USE weq&mmd

COPY TO c:weq&mmd

USE wact&mmd

COPY TO c:wact&mmd

USE

* * make sure it is copied before delete

```
IF FILE ('c:wpr&mmd')

```

DELETE FILE a:wpr&mmdd

ENDIF

```
IF FILE ('c:wman&mmdd')
```

DELETE FILE a:wman&mmdd

ENDIF

BACKUP.CMD

```
IF FILE ('c:weq&mmdd')
DELETE FILE a:weq&mmdd
ENDIF
IF FILE ('c:wact&mmdd')
DELETE FILE a:wact&mmdd
ENDIF
*      * get this weeks ps.dbf for analysis
USE
USE ps
COPY TO c:ps&mmdd..dbf
USE
RETURN
*
*      * END BACKUP.CMD
*
```

```

*****
*
*
*           A - C - M - S   Ver. 84.0
*
*           USA-CERL
*
*   PROGRAM: WPR.CMD -- Single-User Version --
*
*   DESCRIPTION: This program implements single user Weekly Progress Report
*                input. The program gets the task schedule number and
*                displays header information for the user to decide if it
*                is the correct task. The program calls WPR1.CMD to begin
*                data entry.
*
*   CALLS: WPR1.CMD
*
*****
*
ERASE
SET DELETE ON
SET COLON OFF
SET TALK OFF
*   * set up prompts and controls
STORE 'XXXXXX' TO msno
STORE 'mddyy' TO mweek
STORE 'Y' TO mok
STORE 'Y' TO mmore
STORE 'N' TO mokid
*   * get sched numbers and input WPR's until user exits
DO WHILE !(mmore)<
  @ 13,0 SAY "please enter the SCHEDULE NUMBER: " GET msno
  READ
  CLEAR GETS

  SELECT PRIMARY
  USE ps INDEX ps
  FIND '&msno'
  IF #=0
    @ 18,4
    ? "Task NOT FOUND in the project databases, check carefully."
  ELSE
    STORE date TO mdate
    USE
    @ 16,0 SAY "please enter the PERIOD END (mddyy): " ;
    GET mweek PICTURE "999999"
    READ
    CLEAR GETS

    IF mweek<=mdate
      @ 17,0 SAY "Project Status already accumulated to " +mdate

```

```

ELSE
  USE days INDEX days
  FIND '&mweek'
  IF #=0
    @ 17,0 SAY "PERIOD END must be Friday."
    LOOP
  ELSE
    * * check whether it is the correct task
    ERASE
    SELECT SECOND
    USE pdf INDEX pdf
    FIND '&msno'
    STORE $(title,1,18) TO mtitle
    STORE bn TO mbn
    STORE co TO mco
    STORE STR(plt,1,0) TO mplt
    STORE '&mbn'+'/'+'&mco'+'/'+'&mplt' TO munit
    @ 2,0 SAY "SECTION I: TASK IDENTIFICATION "
    @ 2,42 SAY "Period End: " GET mweek
    @ 4,0 SAY "(1) Schedule No.: " GET msno
    @ 4,42 SAY "(2) BN/CO/PLT : " GET munit
    @ 5,0 SAY "(3) Title : " GET mtitle
    @ 5,42 SAY "(4) Location : " GET loc
    @ 6,0 SAY "(5) Start Date : " GET sdate
    @ 6,42 SAY "(6) Comp Date : " GET cdate
    CLEAR GETS
    @ 10,5 SAY "Is this the correct task? (y/n) ";
    GET mok PICTURE '!'
    READ
    CLEAR GETS
    IF mok= "y"
      @ 10,0
      @ 6,18 GET sdate
      @ 6,58 GET cdate
      READ
      CLEAR GETS
      USE
      STORE "wait... setting up for input" TO note
      @ 10,15 get note
      CLEAR GETS
      USE wpr INDEX wpr
      FIND "&msno&mweek"
      IF #=0
        * set up for WPR data entry
        SELECT SECONDARY
        USE wpr INDEX wpr
        APPEND BLANK
        REPLACE sno WITH msno, week WITH mweek
        USE wmandays INDEX wmandays
        APPEND BLANK
        REPLACE sno WITH msno, week WITH mweek
      ENDIF #=0
    
```

```
SELECT PRIMARY
USE
SELECT SECONDARY
USE wpr INDEX wpr
FIND "&msno&mweek"
```

```
*****
```

```
DO wpr1
```

```
*****
```

```
ENDIF #<>0.OR.(s.snoweek=msno+mweek)
```

```
ENDIF mok= "Y"
```

```
ENDIF #=0
```

```
ENDIF mweek<=mdate
```

```
ENDIF #=0
```

```
ERASE
```

```
STORE 'Y' TO mmore
```

```
@ 10,5 SAY "Do you want to continue entering Weekly Reports? (y/n)" ;
```

```
GET mmore
```

```
READ
```

```
CLEAR GETS
```

```
ENDDO WHILE !(mmore)<> 'N'
```

```
USE
```

```
ERASE
```

```
RETURN
```

```
*
```

```
*
```

```
* END WPR.CMD
```

```
*
```

A - C - M - S Ver. 84.0

USA-CERL

PROGRAM: WPR1.CMD -- Single-User Version --

DESCRIPTION: Subroutine to input data of Sections I and II of WPR.
Inherited global memory variables form WPR.CMD: msno,
mweek, mtitle, my, else. Calls WPR2.CMD to complete
data entry and returns to WPR.CMD.

CALLS: by WPR.CMD, calls WPR2.CMD

-----SECTION I-----

@ 10, 0 SAY "(7) Workdays Ahead (+) or Behind (-) Schedule: " GET adjust
@ 11, 0 SAY "(8) Percent Scheduled Complete From CWS: " GET cws
READ

-----SECTION II-----

USE wmandays INDEX wmandays

FIND "&msno&mweek"

ERASE

@ 1,18 SAY "SECTION II: PERSONNEL USE THIS PERIOD"

@ 2, 0 GET mtitle

@ 2,20 SAY "SCHEDULE No."

@ 2,33 GET msno

@ 2,41 SAY "PERIOD END"

@ 2,52 GET mweek

CLEAR GETS

		SUPPORT		DIRECT CONSTRUCTION		
		(9)	(10)	(11)	(12)	
@ 3, 0 SAY "						"
@ 4, 0 SAY "						"
@ 5, 0 SAY "						"
@ 6, 0 SAY "						"
@ 7, 0 SAY "	US	TDY ManDays	TDY ManDays	ManDays	ManDays	"
@ 8, 0 SAY "	TDY	NOT Charged	Charged	Worked	Lost	"
@ 9, 0 SAY "	Rate	To Job	To Job	On Site	Due To	"
@ 10, 0 SAY "						"
@ 11, 0 SAY "	OFF					"
@ 11,11 GET osupport						
@ 11,23 SAY "						
@ 11,28 GET ocharge						
@ 11,39 SAY "						
@ 11,43 GET owork						
@ 11,52 SAY "	Weath					
@ 11,62 GET wlost						
@ 11,68 SAY "						
@ 12, 0 SAY "						"

```

@ 13, 0 SAY "| NCO |"
@ 13,11 GET nsupport
@ 13,23 SAY "||"
@ 13,28 GET ncharge
@ 13,39 SAY "|"
@ 13,43 GET nwork
@ 13,52 SAY "|| Maint |"
@ 13,62 GET mlost
@ 13,68 SAY "|"
@ 14, 0 SAY "+-----+-----+-----+"
@ 15, 0 SAY "| EM |"
@ 15,11 GET esupport
@ 15,23 SAY "||"
@ 15,28 GET echarge
@ 15,39 SAY "|"
@ 15,43 GET ework
@ 15,52 SAY "|| Other |"
@ 15,62 GET olost
@ 15,68 SAY "|"
@ 16, 0 SAY "+-----+-----+-----+"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ; CTR-D: next
character ;"
@ 23, 5 SAY "CTR-W: next screen ; CTR-S: previous character ;"
READ
CLEAR GETS

```

DO wpr2

CLEAR GETS

RETURN

* return to WPR.CMD after WPR2.CMD

*

* * END WPR1.CMD

*


```
*****  
*  
*  
*      A - C - M - S   Ver. 84.0  
*  
*      USA-CERL  
*  
* PROGRAM: WPR2.CMD -- Single-User Version --  
*  
* DESCRIPTION: Final program of the WPR data input series. Gets  
*               equipment usage data, miscellaneous costs, and  
*               manhours of work on subtasks in the CPM. The program  
*               will show user any previously entered data for that  
*               week and accept changes.  
*  
* CALLS: none  
*
```

```
*****  
*  
*  
*      A - C - M - S   Ver. 84.0  
*  
*      USA-CERL  
*  
* PROGRAM: WPR2.CMD -- Single-User Version --  
*  
* DESCRIPTION: Final program of the WPR data input series. Gets  
*               equipment usage data, miscellaneous costs, and  
*               manhours of work on subtasks in the CPM. The program  
*               will show user any previously entered data for that  
*               week and accept changes.  
*  
* CALLS: none  
*
```

[illegible]

```
*****  
*  
*  
* A - C - M - S   Ver. 84.0  
*  
* USA-CERL  
*  
* PROGRAM: WPR2.CMD -- Single-User Version --  
*  
* DESCRIPTION: Final program of the WPR data input series. Gets  
* equipment usage data, miscellaneous costs, and  
* manhours of work on subtasks in the CPM. The program  
* will show user any previously entered data for that  
* week and accept changes.  
*  
* CALLS: none  
*
```

```
* ****
```

```
* 
```

```
* 
```

```
* A - C - M - S   Ver. 84.0
```

```
* 
```

```
* USA-CERL
```

```
* 
```

```
* PROGRAM: WPR2.CMD -- Single-User Version --
```

```
* 
```

```
* DESCRIPTION: Final program of the WPR data input series. Gets
```

```
* equipment usage data, miscellaneous costs, and
```

```
* manhours of work on subtasks in the CPM. The program
```

```
* will show user any previously entered data for that
```

```
* week and accept changes.
```

```
* 
```

```
* CALLS: none
```

```
* 
```

[illegible][illegible][illegible][illegible][illegible]

```
*****ERASE
*-----SECTION III-----
--
*      * get equipment use data
SELECT SECOND
USE eqcost INDEX eqcost
SELECT PRIMARY
USE weq INDEX weq
@ 1, 0 SAY "SECTION III: EQUIPMENT UTILIZED THIS PERIOD    SCHEDULE NO:"
@ 1,58 GET msno
@ 1,66 SAY "PERIOD:"
@ 1,74 GET mweek
STORE 1 TO pageno
@ 3,12 SAY "+-----> Enter  U for US Equip. ; C for CSC Equip.;"
@ 4,12 SAY '|                O for Other Equip.'
@ 4,60 SAY "page " GET pageno PICTURE "9"
STORE 8 TO row
CLEAR GETS
@ 5, 0 SAY "+-----+-----+-----+-----+-----+-----+"
@ 6, 0 SAY "!Equip No.|ty.|hrs.! Equip No.|ty.|hrs.! Equip No.|ty.|hrs.!"
Equip No.|ty.|hrs.|"
@ 7, 0 SAY "+-----+-----+-----+-----+-----+-----+"
@ 8, 0 SAY "!          . |   !           . |   !           . |   !"
!         . |   !"
@ 9, 0 SAY "+-----+-----+-----+-----+-----+-----+"
@ 10, 0 SAY "!          . |   !           . |   !           . |   !"
!         . |   !"
@ 11, 0 SAY "+-----+-----+-----+-----+-----+-----+"
@ 12, 0 SAY "!          . |   !           . |   !           . |   !"
```

[illegible][illegible][illegible]

```
*****
ERASE
*-----SECTION III-----
--
*      * get equipment use data
SELECT SECOND
USE eqcost INDEX eqcost
SELECT PRIMARY
USE weq INDEX weq
@ 1, 0 SAY "SECTION III: EQUIPMENT UTILIZED THIS PERIOD   SCHEDULE NO:"
@ 1,58 GET msno
@ 1,66 SAY "PERIOD:"
@ 1,74 GET mweek
STORE 1 TO pageno
@ 3,12 SAY "+-----> Enter  U for US Equip. ;  C for CSC Equip.;"
@ 4,12 SAY '|                      O for Other Equip.'
@ 4,60 SAY "page " GET pageno PICTURE "9"
STORE 8 TO row
CLEAR GETS
@ 5, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 6, 0 SAY "!Equip No.|ty.|hrs.! Equip No.|ty.|hrs.! Equip No.|ty.|hrs.!"
Equip No.|ty.|hrs.!"
@ 7, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 8, 0 SAY "!          . |    |    !          . |    |    !          . |    |    !"
!          . |    |    !"
@ 9, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 10, 0 SAY "!          . |    |    !          . |    |    !          . |    |    !"
!          . |    |    !"
@ 11, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 12, 0 SAY "!          . |    |    !          . |    |    !          . |    |    !"
```

[illegible][illegible][illegible]

```
*****ERASE
-----SECTION III-----
--
*      * get equipment use data
SELECT SECOND
USE eqcost INDEX eqcost
SELECT PRIMARY
USE weq INDEX weq
@ 1, 0 SAY "SECTION III: EQUIPMENT UTILIZED THIS PERIOD    SCHEDULE NO:"
@ 1,58 GET msno
@ 1,66 SAY "PERIOD:"
@ 1,74 GET mweek
STORE 1 TO pageno
@ 3,12 SAY "+-----> Enter   U for US Equip. ;   C for CSC Equip.;"
@ 4,12 SAY '|                      O for Other Equip.'
@ 4,60 SAY "page " GET pageno PICTURE "9"
STORE 8 TO row
CLEAR GETS
@ 5, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+"
@ 6, 0 SAY "!Equip No.|ty.|hrs.! Equip No.|ty.|hrs.! Equip No.|ty.|hrs.!"
Equip No.|ty.|hrs.!"
@ 7, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+"
@ 8, 0 SAY "!          . | | !           . | | !            . | | !"
!          . | | !           . | | !            . | | !"
@ 9, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+"
@ 10, 0 SAY "!          . | | !           . | | !            . | | !"
!          . | | !           . | | !            . | | !"
@ 11, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+"
@ 12, 0 SAY "!          . | | !           . | | !            . | | !"
```

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

```
*****ERASE
*-----SECTION III-----
--
*      * get equipment use data
SELECT SECOND
USE eqcost INDEX eqcost
SELECT PRIMARY
USE weq INDEX weq
@ 1, 0 SAY "SECTION III: EQUIPMENT UTILIZED THIS PERIOD   SCHEDULE NO:"
@ 1,58 GET msno
@ 1,66 SAY "PERIOD:"
@ 1,74 GET mweek
STORE 1 TO pageno
@ 3,12 SAY "+-----> Enter  U for US Equip. ; C for CSC Equip.;"
@ 4,12 SAY '|                      O for Other Equip.'
@ 4,60 SAY "page " GET pageno PICTURE "9"
STORE 8 TO row
CLEAR GETS
@ 5, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 6, 0 SAY "!Equip No.|ty.|hrs.! Equip No.|ty.|hrs.! Equip No.|ty.|hrs!"
Equip No.|ty.|hrs!"
@ 7, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 8, 0 SAY "!          . |    !          . |    !          . |    !"
!          . |    !"
@ 9, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 10, 0 SAY "!          . |    !          . |    !          . |    !"
!          . |    !"
@ 11, 0 SAY "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+"
@ 12, 0 SAY "!          . |    !          . |    !          . |    !"
```

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]


```

? "      Unknown EQUIPMENT CODE,      try again.  "
@ row,(&no-1)*20+2 GET eno&no
@ row,(&no-1)*20+7 GET atchno&no
@ row,(&no-1)*20+12 GET type&no
@ row,(&no-1)*20+15 GET hr&no
READ
CLEAR GETS
ENDDO WHILE #=0.AND.eno&no<>0

SELECT PRIMARY
IF eno&no=0
  REPLACE atchno&no WITH 0,type&no WITH " " ,hr&no WITH 0
  STORE str(&no+1,1,0) TO no
  LOOP
ENDIF eno&no=0
*      * check for illegal type
DO WHILE !(type&no)<> 'U'.AND.!(type&no)<> 'O' .AND.!(type&no)<>'C'
  @ 16,0 SAY " "
  ? '      Illegal type, must be "U","C" or "O" '
  @ row,(&no-1)*20+12 GET type&no
  READ
  CLEAR GETS
ENDDO WHILE
@ 17,0
STORE str(&no+1,1,0) TO no
ENDDO WHILE no<= "4"

STORE row+2 TO row
IF row>14
  STORE 8 TO row
  STORE pageno+1 TO pageno
ENDIF row>14

SKIP 1
ENDDO WHILE (.NOT.EOF).AND.sno=msno.AND.week=mweek.AND.(#<>0)

STORE "Y" TO amore
@ 16,0 SAY "want to add NEW entries of equipment utilized? (y/n)" GET amore
READ
CLEAR GETS
@ 16,0
DO WHILE !(amore)= 'Y'
  SELECT PRIMARY
  APPEND BLANK
  REPLACE sno WITH msno,week WITH mweek,type1 WITH "U"
  REPLACE type2 WITH "U" ,type3 WITH "U" ,type4 WITH "U"
  @ 4,60 SAY "page " GET pageno PICTURE "9"
  CLEAR GETS
  @ row,2 GET enol
  @ row,7 GET atchnol
  @ row,12 GET typel
  @ row,15 GET hrl

```

```

@ row,22 GET eno2
@ row,27 GET atchno2
@ row,32 GET type2
@ row,35 GET hr2
@ row,42 GET eno3
@ row,47 GET atchno3
@ row,52 GET type3
@ row,55 GET hr3
@ row,62 GET eno4
@ row,67 GET atchno4
@ row,72 GET type4
@ row,75 GET hr4
READ
CLEAR GETS
STORE "1" TO no
*      * routine to verify that equipment is in eqcost.dbf
DO WHILE no<= "4"
  IF eno&no=0
    REPLACE atchno&no WITH 0,type&no WITH " " ,hr&no WITH 0
    STORE str(&no+1,1,0) TO no
    LOOP
  ENDIF eno&no=0

  STORE STR(p.eno&no,4,0)+STR(p.atchno&no,2,0) TO meq
  SELECT SECONDARY
  FIND '&meq'

DO WHILE #=0.AND.eno&no<>0
  SELECT PRIMARY
  @ 16,0 SAY " "+CHR(7)
  ? "      Unknown EQUIPMENT CODE,      try again.  "
  @ row,(&no-1)*20+2 GET eno&no
  @ row,(&no-1)*20+7 GET atchno&no
  @ row,(&no-1)*20+12 GET type&no
  @ row,(&no-1)*20+15 GET hr&no
  READ
  CLEAR GETS
ENDDO WHILE #=0.AND.eno&no<>0

SELECT PRIMARY
IF eno&no=0
  REPLACE atchno&no WITH 0,type&no WITH " " ,hr&no WITH 0
  STORE str(&no+1,1,0) TO no
  LOOP
ENDIF eno&no=0

DO WHILE !(type&no)<> 'U' .AND.!(type&no)<> 'O'.AND.!(type&no)<> 'C'
  @ 16,0 SAY " "
  ? '      Illegal type, must be  "U", "C" or "O" '
  @ row,(&no-1)*20+12 GET type&no
  READ

```

```

      CLEAR GETS
      ENDDO WHILE
      @ 17,0
      STORE str(&no+1,1,0) TO no
      ENDDO WHILE no<= "4"

```

```

      STORE row+2 TO row
      @ 16,10 SAY "continue? (y/n)" GET amore PICTURE '!'
      READ
      CLEAR GETS

```

```

      IF row>14
        STORE 8 TO row
        STORE pageno+1 TO pageno
      ENDIF row>14

```

```

      ENDDO WHILE !(amore)= 'Y'

```

```

      *-----SECTION IV-----

```

```

      *      * get other costs

```

```

      ERASE

```

```

      @ 2, 18 SAY "SECTION IV: OTHER COST(S) THIS PERIOD"

```

```

      @ 4, 0 SAY "SCHEDULE NO.: " GET msno

```

```

      @ 4,26 SAY "TITLE: " GET mtitle

```

```

      @ 4,54 SAY "PERIOD END : " GET mweek

```

```

      CLEAR GETS

```

```

      SELECT PRIMARY

```

```

      USE wpr INDEX wpr

```

```

      FIND '&msno&mweek'

```

```

      @ 7, 0 SAY "(18) CSC Labor      : " GET csglbr

```

```

      @ 7,37 SAY "(21) Rental Fees   : " GET rental

```

```

      @ 9, 0 SAY "(19) CSC TDY       : " GET csgtdy

```

```

      @ 9,37 SAY "(22) Transportation: " GET trans

```

```

      @ 11, 0 SAY "(20) CSC Equipment : " GET csgeq

```

```

      @ 11,37 SAY "(23) Other US TDY  : " GET other

```

```

      READ

```

```

      CLEAR GETS

```

```

      ERASE

```

```

      *-----SECTION V-----

```

```

      *      * get report of manhours worked on subtasks

```

```

      @ 2,18 SAY "SECTION V: CONSTRUCTIVE WORK BY SUBTASK"

```

```

      @ 4, 0 SAY "SCHEDULE NO.: " GET msno

```

```

      @ 4,26 SAY "TITLE: " GET mtitle

```

```

      @ 4,54 SAY "PERIOD END : " GET mweek

```

```

      @ 8, 1 SAY "+-----+-----+-----+-----+"

```

```

      @ 9, 1 SAY "c      (25)      c      (26)      c      (28)      c      (31)      c"

```

```

      @ 10, 1 SAY "c      I      c      J      c      SUBTASKS      c      ACTUAL      c      PHY %      c"

```

```

      @ 11, 1 SAY "c      c      c      c      c      MAN HOURS      c      COMPLETE      c"

```

```

      @ 12, 1 SAY "+-----+-----+-----+-----+"

```

```

      STORE 'wait...one' TO note

```

```

@ 21, 5 GET note
CLEAR GETS
SELECT SECOND
USE act INDEX act
SELECT PRIMARY
USE wact INDEX wact
FIND '&msno&mweek'
@ 21,0
*      * loop to let user change previously entered data
DO WHILE (.NOT.EOF).AND.(p.sno=msno).AND.(mweek=week).AND.(#<>0)
STORE "NOTE: To DELETE and unwanted I-J entry set Hours and Per.Comp. to 0";
TO mnote
@ 7,1 GET mnote
CLEAR GETS
@ 13, 1 SAY "|          |          |          |          |"
|"
@ 14, 1 SAY "+-----+-----+-----+-----+-----"
+"
@ 15, 1 SAY "|          |          |          |          |"
|"
@ 16, 1 SAY "+-----+-----+-----+-----+-----"
+"
@ 17, 1 SAY "|          |          |          |          |"
|"
@ 18, 1 SAY "+-----+-----+-----+-----+-----"
+"
@ 19, 1 SAY "|          |          |          |          |"
|"
@ 20, 1 SAY "+-----+-----+-----+-----+-----"
+"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ;"
@ 23, 0 SAY "      CTR-W: next screen ; CTR-D: next character ; CTR-S:
next character ;"
STORE 1 TO nu
STORE 13 TO row
DO WHILE
(nu<5).AND.(.NOT.EOF).AND.(p.sno=msno).AND.(mweek=week).AND.(#<>0)
@ row, 3 GET p.i
@ row,12 GET p.j
STORE msno+STR(p.i,4,0)+STR(p.j,4,0) TO mkey
SELECT SECONDARY
FIND '&mkey'
@ row,21 GET s.des
CLEAR GETS
SELECT PRIMARY
@ row,39 GET p.amh
@ row,52 GET p.per
READ
CLEAR GETS
STORE nu+1 TO nu
STORE row+2 TO row
SKIP +1

```

```

ENDDO while (nu<5)
ENDDO
@ 7,0
STORE 'NOTE: Enter 0 for Start Node to STOP inputting' to note
@ 7,10 GET note
CLEAR GETS
STORE "Y" TO mmore
DO WHILE !(mmore) <> "N"
    @ 21, 5
    STORE "Y" TO mmore
    STORE "want to add new i-j's?(y/n)" TO note
    @ 21, 5
    @ 21, 5 GET note
    CLEAR GETS
    @ 21,34 GET mmore
    READ
    @ 21, 5
    CLEAR GETS
    IF !(mmore)<>"Y"
        STORE "N" TO mmore
    LOOP
ENDIF
@ 13, 1 SAY "|          |          |          |          |"
|"
@ 14, 1 SAY "+-----+-----+-----+-----+-----+-----"
+"
@ 15, 1 SAY "|          |          |          |          |"
|"
@ 16, 1 SAY "+-----+-----+-----+-----+-----+-----"
+"
@ 17, 1 SAY "|          |          |          |          |"
|"
@ 18, 1 SAY "+-----+-----+-----+-----+-----+-----"
+"
@ 19, 1 SAY "|          |          |          |          |"
|"
@ 20, 1 SAY "+-----+-----+-----+-----+-----+-----"
+"
@ 22, 0 SAY "Type CTR-F: next field ; CTR-A: previous field ;"
@ 23, 0 SAY "      CTR-W: next screen ; CTR-D: next character ; CTR-S:
next character ;"
STORE 1 TO nu
STORE 13 TO row
DO WHILE (nu<5)
    STORE 0 TO mi
    @ row, 3 GET mi PICTURE '9999'
    READ
    @ 21,0
    CLEAR GETS
    IF mi=0
        STORE 5 TO nu
        STORE 'N' TO mmore
    
```

```

      LOOP
    ENDIF
    STORE 0 TO mj
    @ row,12 GET mj PICTURE '9999'
    READ
    CLEAR GETS
    STORE STR(mi,4,0)+STR(mj,4,0) TO mij
    STORE msno+mweek+mij TO mwkey
    STORE msno+mij TO mkey
    SELECT SECONDARY
    FIND "&mkey"
    IF #=0
      *      * task not in data base
      STORE 'I-J NOT FOUND'+CHR(7) TO note
      @ 21,5 GET note
      CLEAR GETS
      LOOP
    ENDIF
    SELECT PRIMARY
    FIND '&mwkey'
    IF #=0
      APPEND BLANK
      REPLACE i WITH mi, j WITH mj, sno WITH msno, week WITH mweek
    ENDIF
    @ row,21 GET des
    CLEAR GETS
    @ row,39 GET p.amh
    @ row,52 GET p.per
    READ
    CLEAR GETS
    STORE nu+1 TO nu
    STORE row+2 TO row
  ENDDO while (nu<5)

ENDDO while !(mmore)<>"N"

ERASE
CLEAR GETS
RETURN
*
*      * END WPR2.CMD
*
```


APPENDIX B:

DATA BASE STRUCTURES

CONTENTS

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ACT.DBF

STRUCTURE FOR FILE: ACT.DBF

Data base to store the Critical Path Method activities that make up the project. The project officer records these activities on the Weekly Progress Report form. The operators input the activity data using the IWPR.CMD program. This is a master file updated by the transaction file WACT.DBF during processing by PS.CMD

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Schedule Number
002	I	N	004		Start Node
003	J	N	004		End Node
004	DES	C	015		Description
005	SMH	N	005		Scheduled Manhours to Complete
006	AMH	N	005		Actual Manhours
007	PER	N	003		Percent Complete
** TOTAL **			00043		

INDEX FILE: ACT.NDX

KEY EXPRESSION: sno+STR(I,4,0)+STR(J,4,0)

STRUCTURE FOR FILE: BILL.DBF

This data base stores the cumulatives for the customer billing report generated by BILLRPT. The user establishes the billing data base through the BILL.CMD program. The input to this program is the Project Number (pno) from the Construction Directive and other miscellaneous data such as the title, unit, DA 2544 number, etc. Each project in the Project Data Base with the same pno will be used to produce the billing report. The file is updated when the report is generated.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	PNO	C	014		
002	BILLNO	N	002		Bill Number
003	FROM	C	006		Starting Date for Report
004	TO	C	006		End Date for Report
005	DA	C	010		DA 2544 Number
006	DATE	C	006		Date of DA 2544
007	UNIT	C	005		Battalion Identifier
008	TITLE	C	015		Project Title
009	USTDY	N	010	002	US TDY Costs
010	USEQUIP	N	010	002	US Equipment Costs
011	CSGTDY	N	010	002	Civilian Service Group TDY Costs
012	CSGEQUIP	N	010	002	Civilian Service Group Equip. Costs
013	CSGLBR	N	010	002	Civilian Service Group Labor Costs
** TOTAL **			00115		

INDEX FILE: BILL.NDX

KEY EXPRESSION: pno

STRUCTURE FOR FILE: BILL.DBF

This data base stores the cumulatives for the customer billing report generated by BILLRPT. The user establishes the billing data base through the BILL.CMD program. The input to this program is the Project Number (pno) from the Construction Directive and other miscellaneous data such as the title, unit, DA 2544 number, etc. Each project in the Project Data Base with the same pno will be used to produce the billing report. The file is updated when the report is generated.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	PNO	C	014		
002	BILLNO	N	002		Bill Number
003	FROM	C	006		Starting Date for Report
004	TO	C	006		End Date for Report
005	DA	C	010		DA 2544 Number
006	DATE	C	006		Date of DA 2544
007	UNIT	C	005		Battalion Identifier
008	TITLE	C	015		Project Title
009	USTDY	N	010	002	US TDY Costs
010	USEQUIP	N	010	002	US Equipment Costs
011	CSGTDY	N	010	002	Civilian Service Group TDY Costs
012	CSGEQUIP	N	010	002	Civilian Service Group Equip. Costs
013	CSGLBR	N	010	002	Civilian Service Group Labor Costs
** TOTAL **			00115		

INDEX FILE: BILL.NDX

KEY EXPRESSION: pno

STRUCTURE FOR FILE: BN.DBF

Data base used to produce the Battalion Cost Report by the program BNRPT.CMD. One record is created in the Project Data Base (PDFMNU.CMD) for each battalion. The file is updated when the report is generated. Only one record is maintained for each battalion.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	BILLNO	N	002		Bill Number
002	FROM	C	006		Starting Date for Report
003	TO	C	006		End Date for Report
004	BN	C	004		Battalion Identifier
005	USTDY	N	010	002	US TDY Costs
006	USEQUIP	N	010	002	US Equipment Costs
007	CSGTDY	N	010	002	Civilian Service Group TDY Costs
008	CSGEQUIP	N	010	002	Civilian Service Group Equipment Costs
009	CSGLBR	N	010	002	Civilian Service Group Labor Costs
** TOTAL **			00069		

INDEX FILE: BN.NDX

KEY EXPRESSION: bn

STRUCTURE FOR FILE: CLUSTERS.DBF

Data structure used in CLUSTERS.CMD to implement the project reporting clusters. A cluster is a set of groups. A group is a set of schedule numbers. The clusters data base is the root (cno) of a tree whose level-one children are groups. The group's children are schedule numbers. A group may have up to 99 children.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	CNO	N	001		Cluster Number
002	CNAME	C	020		Cluster Name
** TOTAL **			00022		

INDEX FILE: CLUSTERS.NDX

KEY EXPRESSION: STR(cno,1,0)

STRUCTURE FOR FILE: DAYS.DBF

This data base contains the six digit dates of the form MMDDYY for the period end of the Weekly Progress Reports. If the period end is Friday, then this file would contain all Fridays for that year. It may contain more than one year.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	DAY	C	006		MMDDYY:Period End
** TOTAL **			00007		

INDEX FILE: DAYS.NDX

KEY EXPRESSION: day

STRUCTURE FOR FILE: EQ.DBF

The structure of this file is the same as that of WEQ.DBF WEQA.DBF, and WEQB.DBF. This file is used to store all the old weekly equipment usage records reported on the Weekly Progress Report. It is updated by the BACKUP.CMD program by appending from WEQ.DBF. The file is used by the program EQAUDIT.CMD to print all past equipment usage of a project for auditing.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Project Schedule Number
002	WEEK	C	006		WPR Reporting Period
003	ENO1	N	004		Equipment Item Number
004	ATCHNO1	N	002		Attachment Number
005	TYPE1	C	001		US, Civilian Service, or Other
006	HR1	N	004		Number of Hours Used
007	ENO2	N	004		
008	ATCHNO2	N	002		
009	TYPE2	C	001		
010	HR2	N	004		
011	ENO3	N	004		
012	ATCHNO3	N	002		
013	TYPE3	C	001		
014	HR3	N	004		
015	ENO4	N	004		
016	ATCHNO4	N	002		
017	TYPE4	C	001		
018	HR4	N	004		
** TOTAL **			00057		

INDEX FILE: EQ.NDX

KEY EXPRESSION: sno+week

STRUCTURE FOR FILE: EQCOST.DBF

The equipment data base is contained in this file. It is created and maintained by the EQCOST.CMD program and is used to calculate the equipment costs for each project. Based on the Weekly Progress Report input of item number (eno and/or atchno) and the number of hours used, the main processing program PS.CMD calculates the weekly equipment cost for the project by finding the OMCOST in EQCOST.DBF. Equipment may have attachments, i.e., subcomponents. The acthno field is used for this purpose.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	ENO	N	004		Equipment Item Number
002	ATCHNO	N	002		Equipment Attachment Number
003	DESP1	C	030		Description Field 1
004	ACOST	N	010	002	Acquisition Cost
005	DCOST	N	005	002	Depreciation Cost
006	OMCOST	N	005	002	Operation and Maintenance Cost
007	DESP2	C	030		Description Field 2
008	DESP3	C	015		Description Field 3
009	TYPE	C	001		US/Local/Special
010	F	C	001		On AMDF:boolean
011	R	C	001		Costs Reportable:boolean
012	A	C	004		Federal Stock Number-A
013	B	C	002		FSN-B
014	C	C	003		FSN-C
015	D	C	004		FSN-D
016	N	C	001		Attachment Type:A=Attachment
** TOTAL **			00119		I=Individual Component N=None

INDEX FILE: EQCOST.NDX

KEY EXPRESSION: STR(eno,4,0)+STR(atchno,2,0)

STRUCTURE FOR FILE: GROUPS.DBF

Provides the data structure for groups definition in the GROUPS.CMD program. Each group has one record that contains the cluster number to which it belongs.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	CNO	N	001		Cluster Number
002	GNO	N	002		Group Number
003	GNAME	C	020		Group Name
004	GMAN	C	010		Group Manager
** TOTAL **			00034		

INDEX FILE: GROUPS.NDX

KEY EXPRESSION: STR(cno,1,0)+STR(gno,2,0)

STRUCTURE FOR FILE: LOCKSA.DBF

Implements a crude record lock for two-user (A and B) input to Weekly Progress Report. WPR.CMD stores user's current schedule number and week in this file and checks the other user's lock file to insure they are not inputting for the same project. There is a LOCKSB.DBF for the B terminal user.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	WSLCK	L	001		NOT USED
002	SNOWEEK	C	012		String = schedule+week
003	WPRPSLCK	L	001		NOT USED
** TOTAL **			00015		

STRUCTURE FOR FILE: MANDAYS.DBF

Master file to store mandays data. One record per project is maintained and updated during processing by PS.CMD from the transaction file WMANDAYS.DBF.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Project Schedule Number
002	OSUPPORT	N	006		Officer Support TDY Mandays
003	NSUPPORT	N	006		NCO Support TDY Mandays
004	ESUPPORT	N	006		Enlisted Support TDY Mandays
005	OCHARGE	N	006		Officer TDY Mandays Charged To Project
006	NCHARGE	N	006		NCO Support TDY Charged To Project
007	ECHARGE	N	006		Enlisted Support TDY Charged To Project
008	OWORK	N	006		Officer Mandays Worked On Site
009	NWORK	N	006		NCO Mandays Worked On Site
010	ework	N	006		Enlisted Mandays Worked On Site
011	WLOST	N	006		Mandays Lost Due To Weather
012	MLOST	N	006		Mandays Lost Due To Maitenance
013	OLOST	N	006		Mandays Lost Due To Other

Reasons

** TOTAL ** 00079

INDEX FILE: MANDAYS.NDX

KEY EXPRESSION: sno

STRUCTURE FOR FILE: MISC.DBF

This data base consists of one record of system control information.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	BN	N	004		NOT USED
002	GOFF	N	005	002	Default Officer TDY Rate
003	GNCO	N	005	002	Default NCO TDY Rate
004	GEM	N	005	002	Default Enlisted TDY Rate
005	LASTMONTH	C	006		Not Used
006	DATE	C	006		Date of Last WPR Processing
007	MISC1	N	010		NOT USED
008	MISC2	N	010		NOT USED
009	MISC3	C	020		NOT USED
** TOTAL **			00072		

STRUCTURE FOR FILE: PDF.DBF

This data base stores the Project Data Form data except for Allocated Funds, which is stored in PS.DBF. One record is created for each project by PDFMNU.CMD. This is the first instance of the project in the system and a record for each project must be in this data base before any input or processing can take place.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	PNO	C	014		Project No. from The Const. Directive
002	SNO	C	006		Project Schedule Number
003	TITLE	C	020		Title of the Project
004	LOC	C	015		Location
005	BN	C	004		Battalion
006	CO	C	001		Company
007	PLT	N	001		Platoon
008	PJTYPE	C	001		Project Funding Type:MCA,MMCA,OMA, ect.
009	ECOST	N	010	002	Estimatated Contractor Cost
010	ETCOST	N	010	002	Estimated Troop Construction Cost
011	SDATE	C	006		Construction Start Date
012	CDATE	C	006		Construction Completion Date
013	CUSTOMER	C	020		Customer
014	COMMENTS	C	069		Any comments the user might have
015	GRAF	C	001		Use Default TDY Rates:boolean
016	OFF	N	005	002	Non-Default Officer TDY Rates
017	NCO	N	005	002	Non-Default NCO TDY Rates
018	EM	N	005	002	Non-Default Enlisted TDY Rates
019	ESC1	N	010	002	Estimated Cost for US TDY
020	ESC2	N	010	002	Estimated Cost for US Equipment
021	ESC3	N	010	002	Estimated Cost for CSG TDY
022	ESC4	N	010	002	Estimated Cost for CSG Equipment
023	ESC5	N	010	002	Estimated Cost for CSG Labor
** TOTAL **			00250		

INDEX FILE: PDF.NDX

KEY EXPRESSION: sno

STRUCTURE FOR FILE: PS.DBF

This is the Project Status master file updated during the main processing program PS.CMD. Also contains three fields used to produce the Monthly Contractor and Troop Construction Cost Report (MCTRPT.CMD): pper, pfunds, and pdirdays. These fields store the values accumulated since the last MCTRPT.CMD.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Schedule Number
002	DATE	C	006		Date of Last Update
003	BN	C	004		Battalion
004	CO	C	001		Company
005	PLT	N	001		Platoon
006	ADJUST	N	004		+ or - Days on the Critical Path
007	CWS	N	006	002	Scheduled Percent Complete
008	SMH	N	008		Total Scheduled Manhours
009	AMH	N	008		Total Actual Manhours
010	ACTPER	N	006	002	Actual Percent Complete
011	AC1	N	010	002	Allocated Funds for US TDY
012	AC2	N	010	002	Allocated Funds for US Equipment
013	AC3	N	010	002	Allocated Funds for CSG TDY
014	AC4	N	010	002	Allocated Funds for CSG Equipment
015	AC5	N	010	002	Allocated Funds for CSG Labor
016	EC1	N	010	002	Expended to Date for US TDY
017	EC2	N	010	002	Expended to Date for US Equipment
018	EC3	N	010	002	Expended to Date for CSG TDY
019	EC4	N	010	002	Expended to Date for CSG Equipment
020	EC5	N	010	002	Expended to Date for CSG Labor
021	PPER	N	006	002	Percent Complete Since Last MCTRPT.CMD
022	PFUNDS	N	011	002	Total Funds Expended Since MCTRPT.CMD
023	PDIRDAYS	N	006		Direct Const. Mandays Since MCTRPT.CMD
** TOTAL **			00174		

INDEX FILE: PS.NDX

KEY EXPRESSION: sno

STRUCTURE FOR FILE: SCHEDULE.DBF

Data structure used in SCHEDULE.CMD to implement project reporting groups. The groups are sets of schedule numbers over which reports will be generated and rolled up to produce summaries. A group is a unique, mutually exclusive set of schedule numbers within a cluster, and a cluster is a set of groups. The data base contains links to its parent group and cluster.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	CNO	N	001		Cluster Number
002	GNO	N	002		Group Number
003	XNO	N	002		Number of Schedule Within the Group
004	SNO	C	006		Schedule Number
** TOTAL **			00012		

INDEX FILE: SCHEDULE.NDX

KEY EXPRESSION: STR(cno,1,0)+STR(gno,2,0)+STR(xno,2,0)

STRUCTURE FOR FILE: WACT.DBF

This is a "master transaction" file for the transaction files WACTA.DBF and WACTB.DBF which store the Weekly Progress Report data for manhours of work on Critical Path Method i-j activities. WACT.DBF is produced by appending WACTA.DBF and WACTB.DBF and is used by the processing program PS.CMD to calculate the actual percent complete and to update the master file ACT.DBF.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Project Schedule Number
002	WEEK	C	006		Weekly Progress Report Period
003	I	N	004		Start Node
004	J	N	004		End Node
005	AMH	N	005		Actual Manhours Worked
006	PER	N	003		Actual Percent Complete
** TOTAL **			00029		

INDEX FILE: WACT.NDX

KEY EXPRESSION: sno+week+STR(i,4,0)+STR(j,4,0)

STRUCTURE FOR FILE: WEQ.DBF

The "master transaction" file for Weekly Progress Report input of equipment usage by project. This file is produced by appending from WEQA.DBF and WEQB.DBF in the main processing program PS.CMD. Note the structure consists of four equipment "subrecords."

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Project Schedule Number
002	WEEK	C	006		WPR Reporting Period
003	ENO1	N	004		Equipment Item Number
004	ATCHNO1	N	002		Attachment Number
005	TYPE1	C	001		US, Civilian Service, or Other
006	HR1	N	004		Number of Hours Used
007	ENO2	N	004		
008	ATCHNO2	N	002		
009	TYPE2	C	001		
010	HR2	N	004		
011	ENO3	N	004		
012	ATCHNO3	N	002		
013	TYPE3	C	001		
014	HR3	N	004		
015	ENO4	N	004		
016	ATCHNO4	N	002		
017	TYPE4	C	001		
018	HR4	N	004		
** TOTAL **			00057		

INDEX FILE: WEQ.NDX

KEY EXPRESSION: sno+week

STRUCTURE FOR FILE: WMANDAYS.DBF

"Master transaction" file updated during initial phase of PS.CMD by appending from the transaction files WMDAYS.A.DBF and WMDAYS.B.DBF. This file then becomes the transaction file for updating the master MANDAYS.DBF.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Project Schedule Number
002	WEEK	C	006		Officer Support TDY Mandays
003	OSUPPORT	N	006		NCO Support TDY Mandays
004	NSUPPORT	N	006		Enlisted Support TDY Mandays
005	ESUPPORT	N	006		Officer TDY Mandays Charged To Project
006	OCHARGE	N	006		NCO Support TDY Charged To Project
007	NCHARGE	N	006		Enlisted Support TDY Charged To Project
008	ECHARGE	N	006		Officer Mandays Worked On Site
009	OWORK	N	006		NCO Mandays Worked On Site
010	NWORK	N	006		Enlisted Mandays Worked On Site
011	ework	N	006		Mandays Lost Due To Weather
012	wlost	N	006		Mandays Lost Due To Maintenance
013	mlost	N	006		Mandays Lost Due To Other Reasons
014	olost	N	006		
** TOTAL **			00085		

INDEX FILE: WMANDAYS.NDX

KEY EXPRESSION: sno+week

STRUCTURE FOR FILE: WPR.DBF

The master transation file for miscellaneous data input in WPR.CMD.
Created in PS.CMD by appending from transaction files WPRA.DBF and WPRB.DBF.

FLD	NAME	TYPE	WIDTH	DEC	COMMENTS
001	SNO	C	006		Schedule Number
002	WEEK	C	006		Weekly Report Period
003	ADJUST	N	003		+ or - days on the Critical Path
004	CWS	N	005	002	Schedule Percent Complete
005	CSGLBR	N	008	002	CSG Labor in Dollars
006	CSGTDY	N	008	002	CSG TDY in Dollars
007	CSGEQ	N	008	002	CSG Equipment in Dollars
008	RENTAL	N	008	002	Rental Costs
009	TRANS	N	008	002	Transportaion Costs
010	OTHER	N	008	002	Other Costs (accrues to US TDY)
** TOTAL **			00069		

INDEX FILE: WPR.NDX

KEY EXPRESSION: sno+week

APPENDIX C:

DATA BASE USAGE IN COMMAND FILES

CONTENTS

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LEVEL COMMAND DATABASE AND INDEX

```
0       backup
      USE misc
      USE wpr INDEX wpr
      USE tt
      USE wpr
      USE wmandays INDEX wmandays
      USE tt
      USE wmandays
      USE wact INDEX wact
      USE tt
      USE wact
      USE weq INDEX weq
      USE eq INDEX eq
      USE tt
      USE weq
      USE wpr&mmdd
      USE wman&mmdd
      USE weq&mmdd
      USE wact&mmdd
```

COMMENTS:

```
tt is temporary database
mmdd is memory variable; month and day.
```

LEVEL COMMAND DATABASE AND INDEX

0 bill

USE bill INDEX bill

USE pdf

LEVEL COMMAND DATABASE AND INDEX

0 billrpt

USE misc
USE pdf INDEX pdf
USE bill INDEX bill
USE ps INDEX ps
USE bill INDEX bill

LEVEL COMMAND DATABASE AND INDEX

```
0        bnrpt
         USE misc
         USE pdf
         USE ps INDEX ps
         USE bn INDEX bn
         USE pdf INDEX pdf.bn
```

LEVEL COMMAND DATABASE AND INDEX

```
0        clusters
         USE clusters INDEX clusters
1        groups
         USE groups INDEX groups
2        schedule
         USE pdf INDEX pdf
         USE schedules INDEX schedules
         USE groups INDEX groups
         USE schedule INDEX schedule
         USE groups INDEX groups
         USE schedule INDEX schedule
         USE schedule INDEX schedule
         USE pdf INDEX pdf
         USE groups INDEX groups

0        USE clusters
         USE b:clusters
         USE groups
         USE b:groups
         USE schedule
         USE b:schedule
```

LEVEL COMMAND DATABASE AND INDEX

0 costrpt
 USE misc
 USE clusters INDEX clusters
 USE groups INDEX groups
 USE schedule INDEX schedule
 USE tsno
 USE groups INDEX groups
 USE ps INDEX ps

COMMENTS:

tsno is a temporary file containing schedule numbers
included in report.

LEVEL COMMAND DATABASE AND INDEX

0 eqaudit
 USE eq INDEX eq
 USE pdf INDEX pdf
 USE eqcost INDEX eqcost

LEVEL COMMAND DATABASE AND INDEX

```
0      eqcost
      USE eqcost INDEX eqcost
1      edeq
2      edeqa
1      edeqa
1      edeq
2      edeqa
1      edeq
2      edeqa
1      edeqa
1      eqrpt
      USE
      USE eqcost
      USE teq
      USE
      USE eqcost
      USE b:eqcost
```

LEVEL COMMAND DATABASE AND INDEX

0 iwpr

```
USE act INDEX act
USE pdf INDEX pdf
USE ps INDEX ps
USE pdf INDEX pdf
USE ps INDEX ps
USE pdf INDEX pdf
USE ps INDEX ps
USE pdf INDEX pdf
USE b:act
```

LEVEL COMMAND DATABASE AND INDEX

0 mctrpt
 USE misc
 USE pdf
 USE mandays INDEX mandays
 USE ps INDEX ps

LEVEL COMMAND DATABASE AND INDEX

```

0      pdfmnu
      USE pdf INDEX pdf
      USE ps INDEX ps
      USE misc
1      pdf
2      pdf1
3      pdf2
          USE ps INDEX ps
          USE mandays INDEX mandays
          USE ps INDEX ps
          USE bn INDEX bn
          USE ps INDEX ps
2      pdf1
3      pdf2
          USE ps INDEX ps
          USE mandays INDEX mandays
          USE ps INDEX ps
          USE bn INDEX bn
          USE ps INDEX ps
      USE ps INDEX ps
      USE schedule INDEX schedule
      USE groups INDEX groups
1      pdfmnu2
      USE pdf INDEX pdf
2      listpdf
          USE pdf INDEX pdf
          USE tpdf
3      ppdf
          USE ps INDEX ps
          USE tpdf
3      sppdf
          USE ps INDEX ps
          USE pdf INDEX pdf
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          USE ps INDEX ps
2      listpdf
          USE pdf INDEX pdf
          USE tpdf
3      ppdf
          USE ps INDEX ps
          USE tpdf
3      sppdf
          USE ps INDEX ps
          USE pdf INDEX pdf
          USE tpdf
          USE ps INDEX ps
2      listpdf
          USE pdf INDEX pdf
          USE tpdf

```



```
3      ppdf
      USE ps INDEX ps
      USE tpdf
3      sppdf
      USE ps INDEX ps
      USE pdf INDEX pdf
      USE tpdf
      USE ps INDEX ps
      USE pdf INDEX pdf
2      ppdf
      USE ps INDEX ps
2      sppdf
      USE ps INDEX ps
      USE pdf INDEX pdf
```

LEVEL COMMAND DATABASE AND INDEX

0 ps

- USE wpr INDEX wpr
- USE wmandays INDEX wmandays
- USE wact INDEX wact
- USE a:weq INDEX weq
- USE wpra
- USE twpra
- USE twprb
- USE wmdaysa
- USE twmdaysa
- USE twmdaysb
- USE wacta
- USE twacta
- USE twactb
- USE weqa
- USE tweqa
- USE tweqb
- USE misc
- USE days INDEX days
- USE misc
- USE ps INDEX ps
- USE wpr INDEX wpr
- USE pdf INDEX pdf
- USE wmandays INDEX wmandays
- USE wmandays INDEX wmandays
- USE eqcost INDEX eqcost
- USE weq INDEX weq
- USE wact INDEX wact
- USE act INDEX act
- USE wmandays INDEX wmandays
- USE mandays INDEX mandays
- USE ps INDEX ps
- USE wpr INDEX wpr

COMMENTS:

t* files are temporary files used to clear the transaction
files w*a and w*b.

LEVEL COMMAND DATABASE AND INDEX

0 psr
 USE misc
 USE clusters INDEX clusters
 USE groups INDEX groups
 USE schedules INDEX schedules
 USE schedules INDEX schedules
 USE schedules INDEX schedules
 USE ps INDEX ps
 USE tsno
 USE ps INDEX ps
 USE tsno

COMMENTS:

tsno is a temporary file containing a list of schedule numbers for report generation.

LEVEL COMMAND DATABASE AND INDEX

0 psrpt

USE pdf INDEX pdf
USE a:mandays INDEX a:mandays
USE a:wmandays INDEX a:wmandays
USE ps INDEX ps
USE eqcost INDEX eqcost
USE a:weq INDEX a:weq

LEVEL COMMAND DATABASE AND INDEX

0 s3rpt
 USE misc
 USE clusters INDEX clusters
 USE groups INDEX groups
 USE schedule INDEX schedule
 USE schedule INDEX schedule
 USE tsno
 USE tsno INDEX tsno
 USE ps INDEX ps
 USE groups INDEX groups
 USE pdf INDEX pdf
 USE ps INDEX ps

COMMENTS:

tsno is a temporary file containing a list of schedule numbers for report generation.

LEVEL COMMAND DATABASE AND INDEX

0 wcsrpt
 USE misc
 USE clusters INDEX clusters
 USE groups INDEX groups
 USE schedule INDEX schedule
 USE schedules INDEX schedules
 USE tsno
 USE groups INDEX groups
 USE pdf INDEX pdf
 USE ps INDEX ps

COMMENTS:

tsno is a temporary file containing a list of schedule numbers for report generation.

LEVEL COMMAND DATABASE AND INDEX

```

0      wpr
      USE &my.:ps INDEX &my.:ps
      USE &my.:days INDEX &my.:days
      USE &my.:pdf INDEX &my.:pdf
      USE locks&else
      USE wpr&else INDEX wpr&else
      USE locks&my
      USE wpr&my INDEX wpr&my
      USE wpr&my INDEX wpr&my
      USE wmdays&my INDEX wmdays&my
      USE wpr&my INDEX wpr&my
1      wpr1
      USE wmdays&my INDEX wmdays&my
2      wpr2
      USE &my.:eqcost INDEX &my.:eqcost
      USE weq&my INDEX weq&my
      USE wpr&my INDEX wpr&my
      USE &my.:act INDEX &my.:act
      USE wact&my INDEX wact&my
      USE locks&my

```

COMMENTS:

else and my are memory variables identifying the user.

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Support Center
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18th Engineer Brigade
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18th Engineer Brigade
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Commander
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APO San Francisco 96301

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WASH DC 20314

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Wright Patterson AFB, OH 45433

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Commander
937th Engineer Group
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9th Infantry Division
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Fort Lewis, WA 98432

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WASH DC 20314

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Port Hueneme, CA 93043

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Port Hueneme, CA 93043

Automated Construction Management System. -- Champaign, Ill : Construction Engineering Research Laboratory, 1984.
2 v. (Technical report ; P-158)

Contents. -- v.I. User's guide / by Jennifer S. Young. -- v.II. Program documentation / by Charles E. Herring, Jr.

1. Automated Construction Management System. 2. U.S. Army -- Military construction operations -- data processing. 3. U.S. Army, Engineer Brigade, 18th. I. Young, Jennifer S. II. Herring, Charles E. III. Series: Technical report (Construction Engineering Research Laboratory) ; P-158.

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